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PERSONAL

Mr. C. E. Loofburrow has been appointed City Engineer of Lorain, O., to succeed Mr. L. A. Fauver.

Mr. Richard Carroll, Vice-President and General Manager of the Mobile & Ohio R. R., of Mobile, Ala., has resigned.

Mr Harrison Van Duyne has been elected President of the Board of Street and Water Commissioners of Newark, N. J.

Col. Robert G. Smith has been elected President of the Board of Street and Water Commissioners of Jersey City, N. J.

Mr. Joseph Smith has been elected Superintendent of the Water-Works of Port Huron, Mich., to succeed Mr. Hugh F. Doran.

Mr. Morris K. Jessup has been elected President of the Chamber of Commerce, of New York city, to succeed Mr. Alexander E. Orr.

Mr. Oscar Erlandsen, M. Am. Soc. C. E., has been commissioned Captain of the First Signal Corps, National Guard of New York.

Mr. John Marston, of Somerset, Pa., has been appointed Chief Engineer of the Southern Alabama extension of the Louisville & Nashville R. R.

Mr. Marc W. Comstock has been appointed Assistant Secretary of the American Car & Foundry Co., with headquarters at St. Louis, Mo.

Mr. William M. Hughes, M. Am. Soc. C. E., has been appointed Special Bridge Engineer and Superintendent to the Sanitary District of Chicago.

Mr. Henry Sanger Snow has been chosen President of the Polytechnic Institute of Brooklyn, N. Y., to succeed Dr. David H. Cochran, resigned.

Mr. J. L. Davids has been appointed City Engineer of San Diego, Cal., to succeed Mr. Edwin M. Capps, who has just been elected Mayor of that city.

Mr. H. V. Hinckley, M. Am. Soc. C. E., of Topeka, Kan., has been appointed by the Department of the Interior to lay out the town site of Muskogee, Ind. Ter.

Mr. William D. Pence, Assistant Professor of Civil Engineering in the University of Illinois, has been appointed Professor of Civil Engineering at Purdue University.

Mr. Horace Stanley Rearden has been elected General Manager of the Omaha, Kansas City & Eastern Ry., and of the Omaha & St. Louis Ry., with headquarters at Quincy, Ill.

Mr. Andrew Carnegie, President of the Carnegie Steel Co., of Pittsburg, has sold his interests in that company so as to be able to give his entire time to the prosecution of his philanthropic plans.

Mr. George M. Hallstead, Trainmaster of the Delaware, Lackawanna & Western R. R., has resigned, to become Vice-President and General Manager of the electric light companies of Scranton, Pa.

Rear-Admiral Albert S. Kenny, General Storekeeper of the Navy Yard at Brooklyn, N. Y., has been appointed Paymaster-General of the U. S. Navy, to succeed Rear-Admiral Edwin Stewart, retired.

Gen. John M. Wilson, M. Am. Soc. C. E., Chief of Engineers of the U. S. Army, has made arrangements for an extensive tour of inspection of the fortifications and river and harbor works on the Pacific Coast.

Mr. Charles P. Chase has been appointed Consulting Engineer to the City Council of Dubuque, Ia., to represent the city's interests in the proposed purchase by the city of the water-works plant of the Dubuque Water Co.

Mr. Frederick H. Gibbens, who has been Treasurer of the Delaware, Lackawanna & Western R. R. Co. for 24 years, has resigned his position. He will be succeeded by Mr. F. F. Chambers, Secretary and Auditor of the same company.

Mr. W. W. Phelps, of the Engineering Department of the Chicago & Northwestern Ry., has been appointed City Engineer of Port Huron, Mich. He held this same position for the eight years previous to 1889, when he resigned to go into railway work.

Messrs. Joseph M. Wilson, M. Am. Soc. C. E., of Philadelphia; Rudolph Hering, M. Am. Soc. C. E., of New York, and Samuel M. Gray, M. Am. Soc. C. E., of Providence, have been appointed by Mayor Ashbridge, of Philadelphia, as experts to make recommendations as to the extension and improvement of the water supply of the city of Philadelphia.

Mr. H. F. Parshall, of London, has been appointed by the American Institute of Electrical Engineers as Local Honorary Secretary for Great Britain, and Mr. James S. Fitzmaurice, of Sydney, New South Wales, has been appointed Local Honorary Secretary for Australia.

Mr. Edward Hopkinson, M. Inst. C. E., an English electrical and mechanical engineer, and Vice-President of the firm of Mather & Platt, Ltd., of the Salford Iron Works, Manchester, will sail for England, on the "Etruria," on May 13. He has been in the United States to purchase machines for new electrical shops to be erected by Mather & Platt.

Mr. S. B. Fortenbaugh, M. Am. Inst. E. E., Assistant Professor of Electrical Engineering in the University of Wisconsin, has been appointed as Assistant to Mr. Sidney H. Short, who has been made Technical Director of a new English company which is being organized by Dick, Kerr & Co., W. J. Kirk and others for the manufacture of dynamos, motors and controllers for electric railways.

OBITUARY.

Col. Robert A. Hardaway, civil engineer, of Auburn, Ala., died on April 28, aged 70 years.

Mr. Jesse Garrett, Representative of R. D. Wood & Co., of Philadelphia, at Bar Harbor, Me., died on April 27.

M. Adolf Guyer-Zeller, the promoter of railways in Switzerland, died recently. His greatest work was the construction of the Jungfrau railway.

Mr. Oliver Hazard Perry Archer, formerly Vice-President of the Erie R. R., died of pneumonia at his home in Allendale, N. J., on May 8, aged 74 years. He built the Joliet & Wilmington and the Suspension Bridge & Erie Junction railways.

Mr. C. M. Higginson, Assistant to President E. P. Ripley, of the Atchison, Topeka & Santa Fe Ry., died at his home in Riverside, Ill., on May 6, aged 53 years. He graduated from the Lawrence Scientific School, of Cambridge, Mass., in 1867, and since that time has been connected with the Burlington & Missouri River R. R., the Topeka, Peoria & Warsaw R. R., and the Chicago, Burlington & Quincy R. R.

ENGINEERING SOCIETIES.

COMING TECHNICAL MEETINGS.

WISCONSIN STATE CHEMICAL ASSOCIATION.
May 12. Secy., I. Ladoff, 154 Knapp St., Milwaukee, Wis.

ST. LOUIS RAILWAY CLUB.
May 12. Secy., H. H. Roberts, 511 Commercial Bldg., St. Louis, Mo.

CENTRAL RAILWAY CLUB.
May 12. Secy., H. D. Vought, 114 Fifth Ave., New York city.

MONTANA SOCIETY OF ENGINEERS.
May 13. Butte, Mont. Secy., A. S. Hovey, National Bank Bldg., Helena, Mont.

TECHNICAL SOCIETY OF NEW YORK.
May 13. "Drying Methods Using a Vacuum and Vacuum Installations," B. Viola. Secy., F. H. Gottlieb, 192 3d Ave., New York city.

TECHNICAL CLUB OF OMAHA.
May 15. Secy., J. Harry Lawrie, Omaha, Neb.

ENGINEERS' CLUB OF MINNEAPOLIS.
May 15. Secy., H. E. Smith, 1620 S. E. 14th St., Minneapolis, Minn.

ENGINEERS' AND ARCHITECTS' CLUB OF LOUISVILLE.
May 15. Secy., Marshall Morris, 16 Norton Bldg., Louisville, Ky.

CIVIL ENGINEERS' CLUB OF CLEVELAND.
May 16. Secy., Wm. H. Searles, Case Library Bldg., Cleveland.

AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS
May 16. Annual meeting. Secy., Ralph W. Pope, 26 Cortlandt St., New York city.

WESTERN RAILWAY CLUB.
May 16. Secy., F. M. Whyte, 225 Dearborn St., Chicago, Ill.

ENGINEERS' SOCIETY OF WESTERN PENNSYLVANIA
May 16. Secy., R. A. Fessenden, 410 Penn Ave., Pittsburg, Pa.

AMERICAN FOUNDRYMEN'S ASSOCIATION.
May 16-19. Annual meeting, Pittsburg, Pa. Secy., John A. Penton, Buhl Block, Detroit, Mich.

AMERICAN WATER-WORKS ASSOCIATION.
May 16-18. Annual meeting, Columbus, O. Secy., Peter Milne, 95 William St., New York city.

FRANKLIN INSTITUTE.
May 16. "Recent Progress in the Liquefaction of Gases," Dr. Harry F. Kerre. Secy., Wm. H. Wahl, 15 South 7th St., Philadelphia, Pa.

AMERICAN SOCIETY OF CIVIL ENGINEERS.
May 17. "The Artificial Preservation of Railroad Ties by Use of Zinc Chloride," W. W. Curtis. Secy., C. W. Hunt, 220 W. 57th St., New York city.

WESTERN SOCIETY OF ENGINEERS.
May 17. Secy., N. L. Litten, Monadnock Block, Chicago, Ill.

BOSTON SOCIETY OF CIVIL ENGINEERS.
May 17. Secy., S. E. Tinkham, City Hall, Boston, Mass.

ENGINEERS' CLUB OF CINCINNATI.
May 18. Secy., J. F. Wilson, P. O. Box 333, Cincinnati, O.

SOUTHERN AND SOUTHWESTERN RAILWAY CLUB.
May 18. Secy., F. A. Charpiot, P. O. Box 13, Savannah, Ga.

NEW YORK RAILROAD CLUB.
May 18. Secy., W. W. Wheatley, 168 Montague St., Brooklyn, N. Y.

ROCHESTER ENGINEERING SOCIETY.
May 19. Secy., John F. Skinner, Reynolds Library Bldg., Rochester, N. Y.

CHICAGO ELECTRICAL ASSOCIATION.
May 19. Secy., J. R. Cravath, 825 Monadnock Block, Chicago, Ill.

THE DETROIT ENGINEERING SOCIETY.
May 19. Secy., Henry Goldmark, Wayne Co. Savings Bank Bldg., Detroit, Mich.

THE ENGINEERS' CLUB OF PHILADELPHIA.
May 20. Secy., L. F. Rondinella, 1122 Girard St., Philadelphia, Pa.

ENGINEERS' CLUB OF COLUMBUS.
May 20. Secy., H. M. Gates, 12½ North High St., Columbus, O.

ENGINEERS' CLUB OF ST. LOUIS.
May 21. Secy., E. R. Fish, 2401 N. Spring Ave., St. Louis, Mo.

NATIONAL ELECTRIC LIGHT ASSOCIATION.
May 23-25. Annual meeting, New York. Secy., Geo F. Porter, 136 Liberty St., New York city.

CANADIAN SOCIETY OF CIVIL ENGINEERS.
May 25. Secy., H. C. McLeod, 112 Mansfield St., Montreal, Que.

TECHNICAL SOCIETY OF THE PACIFIC COAST.
June 2. Secy., O. Von Geldern, 819 Market St., San Francisco, Cal.

BROOKLYN INSTITUTE OF ARTS AND SCIENCES.
June 2. Secy., Henry I. Weed, Brooklyn Institute of Arts and Sciences, Brooklyn, N. Y.

ENGINEERING SOCIETY OF WESTERN NEW YORK.
June 5. Secy., H. J. March, Library Bldg., Buffalo, N. Y.

FOUNDRYMEN'S ASSOCIATION (Philadelphia).
June 7. Secy., Howard Evans, Pier 45, N. Delaware Ave., Philadelphia, Pa.

ENGINEERING ASSOCIATION OF THE SOUTH.
June 8. Secy., H. M. Jones, 1000 Broad St., Nashville, Tenn.

ENGINEERS' CLUB OF KANSAS CITY.
June 12. Secy., F. W. Tuttle, Baird Bldg., Kansas City, Mo.

THE LOUISIANA ENGINEERING SOCIETY.
June 12. Secy., J. F. Coleman, 712 Union St., New Orleans, La.

DENVER SOCIETY OF CIVIL ENGINEERS.
June 12. Secy., W. B. Lawson, 36 Jacobson Bldg., Denver, Colo.

AMERICAN INSTITUTE OF ARCHITECTS (New York Chapter).
June 14. Secy., Chas. I. Berg, 10 West 23d St., New York city.

THE WESTERN GAS ASSOCIATION.
June 14-16. Annual meeting, Milwaukee, Wis. Secy., Jas. W. Dunbar, New Albany, Ind.

AMERICAN RAILWAY MASTER MECHANICS' ASSOCIATION and the MASTER CAR BUILDERS' ASSOCIATION.
June 14-23. Annual meeting, Old Point Comfort, Va. Secy., Jno. W. Cloud, 774 Rookery, Chicago, Ill.

WESTERN FOUNDRYMEN'S ASSOCIATION.
June 21. Secy., B. M. Gardner, 1522 Monadnock Block, Chicago, Ill.

THE CIVIL ENGINEERS' CLUB OF CLEVELAND.—A meeting of this club was held on May 9, at which the subject, "The Desirable Qualifications in Technical School Graduates," was discussed.

AMERICAN SOCIETY OF CIVIL ENGINEERS.—The 31st annual convention of this society will be held at the Stockton Hotel, Cape May, N. J., June 27-30. Particulars will be announced later.

THE DETROIT ENGINEERING SOCIETY.—The annual meeting and banquet of this society was held on April 21. The following were elected officers for the ensuing year: Pres., W. J. Keep; First Vice-Pres., Alexander Dow; Second Vice-Pres., Willard Pope; Secy., Henry Goldmark; Treas., T. M. Hinchman, Jr.

SOUTHWESTERN GAS, ELECTRIC AND STREET RAILWAY ASSOCIATION.—The annual meeting of this association will be held at Austin, Texas, on May 17-19. The following papers will be presented: "The Item of Depreciation," W. E. Hamilton; "Meters," W. E. Holmes; "Transformers," Harry L. Monroe; "The Amount and Extent of Legitimate Investment in Electric Lighting Plants of Certain Capacities," F. Fries; "Summer Amusements for Street Railway Companies," W. H. Steuart; "Art and Science of Selling Gas," Thomas D. Miller; "A Model Plant Under Model Management; What Both Would Be Like," J. F. Strickland; "Alternators," E. Dysterud; "The Attitude of a Corporation to the Public," W. R. Weiss; "Means of Encouraging the Diversified Use of Electric Current," C. L. Wakefield; Mexican paper, "Electric Lighting and Application of Electricity to Various Purposes in Mexico," a Mexican delegate; "Arc Lamps," Max Levy; "Fare Boxes vs. Conductors," F. E. Scovill.

AMERICAN FOUNDRYMEN'S ASSOCIATION.—The 4th annual meeting of this association will be held at Pittsburg, Pa., May 16-19. Headquarters will be at the Monongahela Hotel, where the business meetings will be held. The list of papers to be presented includes the following: "A New England Foundry," A. W. Walker; "Original Methods of Handling Materials at the Works of the Michigan Stove Co., Detroit, Mich.," W. J. Keep; "The Utility of Chemically Standardized Iron Samples," Albert W. Smith; "The History and Technique of Brass Founding," James Powell; "The Importance of Fillets and Round Corners in Modern Machinery Castings," John M. Richardson; "The Advantages of Upper Floor Foundry for Light Castings," C. J. Wolff; "An Improved Method of Setting Up Brass Furnaces," Eli Millett; "The Deceptive Fracture of Pig Iron," Thos. D. West.

The entertainment program includes sight-seeing excursions and visits to the foundry of the Westinghouse Air Brake Co., the Homestead Plant of the Carnegie Steel Co., and other local foundries.

THE THIRD NEW YORK ELECTRICAL EXHIBITION.—On the evening of May 8 the third New York electrical exhibition was opened at Madison Square Garden amid the usual amount of music and speechmaking, both of which were enjoyed by the fair-sized crowd gathered to attend the opening exercises. This year the exhibition is being held under the auspices of the National Electric Light Association, and it is the intention to hold the association's annual convention at the Madison Square Garden in the concert room adjoining the large exhibition hall. The opening exercises were few and simple, and consisted in receiving congratulatory telegrams from President McKinley and Governor Roosevelt. Senator Chauncey M. Depew delivered the opening address, which was naturally a popular and somewhat flowery discussion of the uses and possibilities of electricity. The exhibition will continue until June 3, and at different times during its progress special technical meetings will be held under the direction of the New York Electrical Society. One of these, on May 13, will commemorate the 100th anniversary of the discovery of the electric battery by Volta.

THE RAILWAY TRANSPORTATION ASSOCIATION.—Notice of the formation of this association and the list of officers for the ensuing year were given in Engineering News for April 20. An executive committee has since been appointed, consisting of the following companies: Central R. R. of New Jersey; Mobile & Ohio R. R.; Canadian Pacific Ry.; Chicago, Milwaukee & St. Paul Ry.; St. Louis Southwestern Ry.; Atchison, Topeka & Santa Fe Ry. The purpose of the association as set forth in its constitution is "the development and solution of problems affecting transportation in the interest of railroad companies."

The subjects to be considered at the first regular meeting, which will be held in New York city, June 23, are as follows:

(1) The question of a uniform system for transfer of freight at junction points, with a view of determining whether the receiving or delivering road should stand the cost of the transfer under the different conditions affecting interchange.

(2) What constitutes the delivery of a car at a junction point, with a view of bringing about a uniform standard so that the record of the delivering line and the record of the receiving line will be uniform and the same.

(3) Recommendations as to a uniform method of compiling statistics regarding train load and tonnage, with especial reference to double head trains.

(4) The question of a uniform system for placing orders with other roads for equipment as well as all matters pertaining to the distribution and supply of cars, with a view of bringing about a standard system of blanks and rules for the handling of that branch of the service.

NATIONAL ELECTRIC LIGHT ASSOCIATION.—The 22d annual meeting of this association will be held in Madison Square Garden, New York city, from May 23-25. The convention is coincident with the New York Electrical Exhibition, which began May 8, and will continue until June 3.

The following papers will be presented: "Single-Phase Distribution," Herman A. Wagner, St. Louis, Mo.; "Underground Electrical Construction," Louis A. Ferguson, Chicago, Ill.; "Some Notes on Underground Distribution of Two-Phase Current in New York City," E. A. Leslie, New York city; "The Development of High-Tension Service" (illustrated by stereopticon), Calvin W. Rice; "A Local Transmission System—Development and Operation," W. S. Barstow, Brooklyn, N. Y.; "Alternating-Current Generation and Distribution—Changes Contemplated in Atlanta," H. M. Atkinson, Atlanta, Ga.; "Means of Affording Safety in Electrical Distribution," W. L. R. Emmet, Schenectady, N. Y.; "Rotary Transformers and Storage Batteries, and Their Relation to Long-Distance Transmission," Prof. W. L. Robb, Hartford, Conn.

It is understood that the General Electric Co. has extended an invitation to members of the association to visit its factory at Schenectady, N. Y., and has arranged for a special train, which will leave the New York Central Station on the morning of May 26. This will enable the visitors to inspect the company's works and return to New York by 10 p. m. of the same day.

NEW PUBLICATIONS.

LITERARY MAGAZINES.—In the April "Fortnightly" the new policy in relation to China which has been adopted by Lord Salisbury is described. Briefly stated, England has relinquished her claim to "the open door" in China, and has assented to the division of the country into "spheres of influence." The article should interest American readers, for it is altogether probable that American trade with China will eventually suffer, as a result of this course. England's new trunk line, the Great Central Ry., which succeeds the old Manchester, Sheffield & Lincolnshire Ry., is described in the same magazine and an interesting bit of early railway history is told. When the London & Northwestern Ry. officials were first approached on the subject of carrying coal, they were indignant that they should be thought "common carriers," and actually refused to transport such plebian stuff. At that time the notion was common that a railway was merely a superior kind of mail coach route, to be used for passenger traffic only.

The April "Contemporary Review" contains an article on the old age pension movement in England, which we commend to those who suppose that the United States is the leader in radical legislation of this sort. "The London Government Bill," which was reviewed editorially in a recent issue of Engineering News, is described by a member of the London County Council in the same magazine. "Indian Currency" is the title of another article, the author of which declares that the British Government has decided to introduce the gold standard in India. He states that the gold now hoarded in India is estimated at the enormous sum of $1,500,000,000. If this estimate is even approximately true, no such drain of gold from other nations will be necessary to establish the gold standard in India as has been commonly believed.

The May "Pall Mall" magazine has an excellent illustrated description of St. John's, Newfoundland, a city less known to Americans than many in the Old World. An interesting project for shortening the time of a trans-Atlantic trip is related in this article. From the Irish coast to St. John's is only 1,760 miles, or about 3½ days sail for one of the newest Atlantic greyhounds. From St. John's a line of railway runs through the center of the island 550 miles to Port aux Basques, where a 90-mile steamer voyage lands the passenger at Cape Breton, where he would again be transferred to a fast express train for his destination. Such projects, however, are hardly likely to be carried out. Few passengers care enough about shortening the ocean voyage from the present 5 to 7 days to undergo the discomforts of added railway travel and changes of conveyance. In the long serial by W. Clark Russell, in the "Pall Mall," are described such famous vessels as the "Great Eastern," the yacht "America," the "Merrimac" and the "Monitor," and the vessels of the "Collins" line, which in 1851 crossed the Atlantic in 9 d. 17 h. 12 min.

The May "Century" is a "War Number" with a vengeance. The captains of seven of the vessels which fought the battle of Santiago each tell their story of that remarkable fight, and in addition three or four of the subordinate officers are given a chance to tell what they saw and heard.

In the May "Atlantic" the development of what is commonly called "State Socialism" in Australia and New Zealand is reviewed. It will probably surprise many to know of the extent to which this movement has progressed in these English colonies. South Australia, Victoria, Western Australia and New Zealand lend money to settlers at low rates of interest. Almost all the railways and all the telegraph and telephone lines are owned and operated by the government. New Zealand has long had a government department of life insurance and has just established a system of old age pensions under which every person above the age of 65 years is entitled to a pension of 7 shillings a week, if he or she has lived in the colony for 25 years and has a good record as a sober and law-abiding citizen. The article is intended as a reply to a coldly critical one on the same subject, by Mr. E. L. Godkin, in the March number of the same magazine, and is to be especially commended to those who have formed prejudices against the Australian system on account of Mr. Godkin's or other articles of noticeable bias. "American Deep-Water Shipping" is the title of another article in the same magazine, the author of which urges that what is needed to revise American shipping is a government insurance and inspection bureau in connection with a department similar to the British Board of Trade.

In the May "Cosmopolitan," Postmaster-General Charles Emory Smith describes in a popular way the operation of the United States Postal Service. An article, entitled "A Railway to the Klondike," arouses expectations of something interesting by its title; but very little is said concerning the railway, no more than has already been told in the newspapers concerning this road, which our readers will remember as the White Pass & Yukon Ry.

In the May "McClure's" the discovery of Dr. T. J. J. See regarding the origin of the planetary system is presented in an elementary way by Ray Stannard Baker. Dr. See's own presentation of his discovery in the April "Popular Science Monthly" we noted last month. "McClure's" also contains two railway stories, one from the pen of Mr. John A. Hill of the "American Machinist" and the other, recounting the story of a project for a "farmers' railroad" in northern Minnesota which we believe is founded on fact.

In the May "North American Review" Hon. Thos. B. Reed writes on "The Nicaragua Canal," and inasmuch as Mr. Reed has been accused of having been the chief agent in defeating the bills for government construction of the canal which were before the last Congress it is of much interest to see what he has to say. His article is a very fair and temperate one. He shows plainly that too little is now known about either the Nicaragua or the Panama schemes to permit an intelligent comparison of them to be made. "Congress has probably done well in giving ample funds, in the last River and Harbor bill, for the full examination of both the proposed canals," says Mr. Reed, "and if that sum is used wisely by the selection of unprejudiced, sensible sources of information we shall be better off." We trust that Mr. Reed's hopes may be realized and that the President may see fit to select "unprejudiced and sensible" men to do this work. One other article in the "North American Review" which deserves a word of mention here is "Conditions and Needs in Cuba," by Gen. Leonard Wood.

This month's "Review of Reviews" has much to say on American progress in municipal government. Dr. Albert Shaw reviews the new charter of San Francisco, which is notable for its introduction of the Swiss "initiative" and "referendum" as a feature. Good municipal government on the other side of the continent is also represented in a sketch of the work of Hon. Josiah Quincy as Mayor of Boston.

The May "Forum" opens with two articles on trusts, the first, "Anti-Trust Legislation," by Hon. Aldace F. Walker, and the second, "Trusts in Europe," by Wm. Berdrow. Mr. Henry S. Kittredge, of the "Textile World," summarizes the progress of the textile industry since 1890; and Mr. O. P. Austin, Chief of the U. S. Bureau of Statistics, describes the various methods of government of colonial possessions at present in force.

In the May "Harper's" we find a paper on a kindred subject, "The Civil Service and Colonization," by Francis Newton Thorpe. "Harper's" also contains a historic sketch of the Manhattan Company of New York, a banking institution which celebrated its centennial last year and which was originally organized for the nominal purpose of furnishing a pure water supply to New York city.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Bids to be opened.	Work.	Place.	See Eng. News.
May 11.	Water pipe, castings, etc.,	Newark, N. J.	May 4
	Advertised, Engineering News, May 4.		
May 11.	Ice plant, and cold storage,	West Point, N. Y.	Apr. 13
	Advertised, Eng. News, Apr. 13 to May 4.		
May 11.	Filter beds,	Marlboro Junction, Mass.	Apr. 27
	Advertised, Eng. News, Apr. 27 and May 4.		
May 11.	Asphalt paving, etc.,	Union, N. J.	Apr. 27
	Advertised, Eng. News, Apr. 27 and May 4.		
May 12.	Masonry dam,	White Plains, N. Y.	Apr. 27
	Advertised, Eng. News, Apr. 27 to May 11.		
May 12.	Dredging,	Mobile Bay, Ala.	Apr. 20
	Advertised, Eng. News, Apr. 20 to May 11.		
May 12.	Sewers,	Darby, Conn.	May 4
	Advertised, Eng. News, May 4 and [illegible]		
May 12.	Pier,	New York, N. Y.	May 4
May 13.	Granite blocks,	Brooklyn, N. Y.	May 4
May 13.	Dipper dredges (2),	Chattanooga, [illegible]	Apr. 13
	Advertised, Eng. News, Apr. 13 to May 4.		
May 13.	Electric plants (2),	St. Helena Is.	Apr. 13
	Advertised, Eng. News, Apr. 13 to May 4.		
May 13.	Naphtha lamps,	Washington, D. C.	Apr. 20
	Advertised, Engineering News, Apr. 20.		
May 13.	Street lanterns,	Washington, D. C.	Apr. 20
	Advertised, Engineering News, Apr. 20.		
May 13.	Revetment and filling,	Toledo, O.	Apr. 27
	Advertised, Eng. News, Apr. 27 and May 4.		
May 13.	Engine house,	Pittsburg, Pa.	May 11
May 13.	Sewers, etc.,	North Adams, Mass.	May 11
May 13.	Pipe sewers,	Prospect Park, Pa.	May 11
May 13.	School building,	Jamestown, N. Y.	May 11
May 15.	Library building,	Lockhart, Tex.	May 11
May 15.	Electric railway survey,	Indianapolis, Ind.	May 11
May 15.	Hospital building,	Vineland, N. J.	May 11
May 15.	School building,	Charlotte, N. C.	May 11
May 15.	City hall,	Covington, Ky.	May 11
May 15.	School building,	Steven's Point, Wis.	May 11
May 15.	Street bonds, $75,000,	Bloomfield, N. J.	May 11
May 15.	Boilers (2),	New York, N. Y.	May 11
May 15.	Sewers,	Indianapolis, Ind.	May 11
May 15.	Sewerage system,	Sauk Centre, Minn.	May 11
	Advertised, Eng. News, Mar. 30 and Apr. 6.		
May 15.	Main sewer,	Montreal, Que.	May 11
May 15.	Water-works,	Thompson, Ia.	May 11
May 15.	Sewer pipe, etc.,	Janesville, Wis.	May 11
May 15.	Paving,	Union City, Pa.	May 11
May 15.	Paving,	Stamford, Conn.	May 11
May 15.	Paving,	Erie, Pa.	May 11
May 15.	Paving,	Albany, N. Y.	May 11
May 15.	Sidewalks,	Indianapolis, Ind.	May 11
May 15.	Macadam paving,	Petersburg, Va.	Apr. 27
	Advertised, Engineering News, Apr. 27.		
May 15.	Paving blocks, etc.,	Haverhill, Mass.	Apr. 27
	Advertised, Engineering News, Apr. 27.		
May 15.	Paving, etc.,	Elizabeth, N. J.	Apr. 27
May 15.	Electric plant,	Whitecloud, Mich.	Apr. 27
May 15.	Macadamizing,	Plainfield, N. J.	Apr. 27
May 15.	Water pipe,	Wellsville, O.	Apr. 20
May 15.	Steam road roller,	Nanaimo, B. C.	Apr. 20
May 15.	Dredging, etc.,	Sandusky, O.	Apr. 20
	Advertised, Eng. News, Apr. 20 to May 11.		
May 15.	Dredging,	Huntington Harbor, N. Y.	Apr. 20
	Advertised, Eng. News, Apr. 20 to May 11.		
May 15.	Electric lighting,	Lebanon, Pa.	Apr. 20
May 15.	Steel bridges (7),	Honolulu, H. I.	Apr. 20
May 15.	Railway,	Chili	Apr. 13
May 15.	Sewers,	Medford, Ore.	Mar. 30
May 15.	Church building,	Hartley, Ia.	Apr. 20
May 15.	Water-works,	Gold Hill, Ore.	Apr. 20
May 15.	Water-works,	Gallatin, Tenn.	Apr. 20
	Advertised, Engineering News, Apr. 20.		
May 15.	Macadam paving,	Norwich, Ont.	May 4
May 15.	Sewers,	Quincy, Mass.	May 4
	Advertised, Engineering News, May 4.		
May 15.	School building,	Wakefield, Neb.	May 4
May 15.	Army barracks, etc.,	Fort Meyer, Va.	May 4
May 15.	City building,	Elwood, Ind.	May 4
May 15.	School building,	Franklin, Minn.	May 4
May 15.	Sewers, etc.,	Warren, Pa.	May 4
May 16.	Immigrant building,	Ellis Island, N. Y. H.	Apr. 20
	Advertised, Eng. News, Apr. 20 and 27.		
May 16.	Water pumps, etc.,	Ottawa, Ont.	Apr. 20
	Advertised, Eng. News, Apr. 20 to May 4.		
May 16.	Jail building,	Stillwater, Minn.	May 4
May 16.	Power dam, etc.,	Richmond, Va.	May 4
	Advertised, Engineering News, May 4.		
May 16.	Paving and sewers,	St. Louis, Mo.	May 4
May 16.	Steel bridge,	Utica, N. Y.	May 11
May 16.	Paving,	Jersey City, N. J.	May 11
May 16.	Bridge,	Buffalo, N. Y.	May 11
May 16.	Bridge,	Seymour, Ill.	May 11
May 16.	Bridges (8),	Albany N. Y.	May 11
	Advertised, Engineering News, May 11.		
May 16.	Water pipe, castings, etc.,	Montreal, Que.	May 11
May 16.	Brick cement, etc.,	Jersey City, N. J.	May 11
May 16.	Sewerage system,	Atlanta, Ga.	May 11
May 16.	Pig lead (20,000 lbs.),	Jersey City, N. J.	May 11
May 16.	Tubular boilers (6),	Chicago, Ill.	May 11
May 17.	Cement (3,000 bbls.),	Pittsburg, Pa.	May 11
May 17.	Steel and stone bridges (17),	Pittsburg, Pa.	May 11
May 17.	Paving,	Chicago, Ill.	May 11
May 17.	Electric machinery,	Barrie, Ont.	May 11
May 17.	Grading, paving, etc.,	Indianapolis, Ind.	May 11
May 17.	Iron bridge,	Norristown, Pa.	May 4
May 17.	Sand,	Fisher's Island, N. Y.	Apr. 20
	Advertised, Eng. News, Apr. 20 to May 11.		
May 17.	Dredging,	Wisconsin.	Apr. 20
	Advertised, Eng. News, Apr. 20 to May 11.		
May 17.	Dredging, etc.,	Portchester, N. Y.	Apr. 20
	Advertised, Eng. News, Apr. 20 to May 11.		
May 17.	Sewerage system,	Auburn, Ind.	Apr. 20
	Advertised, Engineering News, Apr. 20.		
May 17.	Removing wreck,	Boston, Mass.	Apr. 27
May 17.	Excavating reservoir,	Clinton, Mass.	Apr. 27
	Advertised, Eng. News, Apr. 27 and May 4.		
May 17.	Infirmary building,	Norristown, Pa.	Apr. 27
May 17.	Boiler plant,	Columbus, O.	Apr. 27
May 18.	Electrical machinery,	London, England	Apr. 27
May 18.	Heat'g and ventilat'g,	Ellis Island, N. Y. H.	Apr. 27
	Advertised, Eng. News, Apr. 27 and May 4.		
May 18.	Pumping machinery,	Willimantic, Conn.	Apr. 27
	Advertised, Eng. News, Apr. 27 and May 4.		
May 18.	Dredging ship channel,	Baltimore, Md.	Apr. 13
	Advertised, Eng. News, Apr. 13 to May 4.		
May 18.	Removing rock, etc.,	Mystic River, Conn.	Apr. 20
	Advertised, Eng. News, Apr. 20 to May 11.		
May 18.	Dredging,	Stamford Harbor, Conn.	Apr. 20
	Advertised, Eng. News, Apr. 20 to May 11.		
May 18.	Hospital building, etc.,	Orient (L. I.), N. Y.	May 4
May 18.	Reservoir lining,	Morris Plains, N. J.	May 11
May 18.	Water mains,	High land, Ky.	May 11
May 18.	Steel water pipe, etc.,	Chicago, Ill.	May 11
May 18.	Water-works bonds,	Sanford, N. C.	May 11
May 18.	Water-works,	Pine Island, Minn.	May 11
May 19.	Grading, draining, etc.,	Youngstown, O.	May 11
May 19.	Sewerage system,	Sheridan, Pa.	May 11
May 19.	Macadamizing,	Roselle, N. J.	May 4
	Advertised, Engineering News, May 4.		
May 19.	Pier work,	St. Joseph, Mich.	Apr. 29
	Advertised, Eng. News, Apr. 20 to May 11.		
May 19.	Sewers,	Cambridge, O.	Apr. 27
	Advertised, Engineering News, Apr. 27.		
May 20.	Dredging plant,	Buffalo, N. Y.	Apr. 20
	Advertised, Eng. News, Apr. 20 to May 11.		
May 20.	Asphalt paving,	Washington, D. C.	Apr. 27
	Advertised, Engineering News, Apr. 27.		
May 20.	Sewers,	La Junta, Colo.	May 4
May 20.	Steel bridge,	Walla Walla, Wash.	May 4
May 20.	Sewer pipe, etc.,	Norristown, Pa.	May 4
	Advertised, Eng. News, May 4 and 11.		
May 20.	School building plans,	Montgomery, Ala.	May 4
May 20.	School building,	Russell, Ia.	May 4
May 20.	Fish hatchery,	Edenton, N. C.	May 11
May 20.	Building materials,	Chicago, Ill.	May 11
May 20.	Heating, etc.,	Cayuga, Ont.	May 11
May 20.	Paving,	San Antonio, Tex.	May 11

May 22. Bridge, Hailey, Idaho.....May 11
May 22. Steel stacks (2), Chicago, Ill.....May 11
May 22. Electric supplies, stacks, etc., Chicago, Ill..May 11
May 22. Brick building, Eagle Grove, Ia.....May 11
May 22. School building, Glenwood, Minn.....May 11
May 22. Macadamizing, Risingsun, Ind.....May 11
May 22. Water works and electric plant, Cullman, Ala...May 4
May 22. Water bonds, Huntsville, Ala.....May 4
May 22. School building, Jamaica, Ia.....May 4
May 22. Macadamizing, etc., Cincinnati, O.....Apr. 27
May 22. Portland cement, Louisville, Ky.....Apr. 27
Advertised, Eng. News, Apr. 27 to May 18.
May 22. Brick paving, Glens Falls, N. Y.....Apr. 20
Advertised, Eng. News, Apr. 20 to May 11.
May 22. Excavating, Oswego, N. Y.....Apr. 27
Advertised, Eng. News, Apr. 27 to May 18.
May 22. Plumbing, etc., Ellis Island, N. Y. H.....April 27
Advertised, Eng. News, Apr. 27 and May 4.
May 22. Bridge work, Toronto, Ont.....Apr. 27
Advertised, Eng. News, Apr. 27 and May 4.
May 23. Brick paving, Watertown, Wis.....May 4
May 23. Dormitory building, Arkansas City, Kan...May 4
May 23. Paving, Binghamton, N. Y.....May 11
Advertised, Eng. News, May 11 and 18.
May 24. Wharf, Burnt Church, N. B.....May 11
May 24. Street signs (500), Des Moines, Ia.....May 11
May 24. Water-works, Gaffney City, S. C.....May 11
May 24. Steel bridges (5), Aberdeen, S. Dak.....May 4
May 24. Dormitory building, Grand Forks, N.Dak..May 4
May 24. Dormitory building, Orting, Wash.....May 4
May 24. Hospital building, Fort Steilacoom, Wash..May 4
May 22. Public lighting, Vincennes, Ind.....Apr. 13
May 25. Sewer system, Johannesburg, S. Africa....Mar. 9
May 25. Dredging, Mississippi.....Apr. 27
Advertised, Eng. News, Apr. 27 to May 18.
May 25. Dredging, Chicago, Ill.....Apr. 27
Advertised, Eng. News, Apr. 27 to May 18.
May 25. Brick storehouse, North Point, Md.....Apr. 27
Advertised, Eng. News, Apr. 27 to May 18.
May 25. Harbor work, Wisconsin.....Apr. 27
Advertised, Eng. News, Apr. 27 to May 18.
May 25. Boiler house, etc., Chicago, Ill.....May 4
Advertised, Eng. News, May 4 and 11.
May 25. Buildings, etc., Puyallup, Wash.....May 4
May 25. Water bonds, Nora Springs, Ia.....May 11
May 26. Electric lighting, Newport News, Va.....May 11
May 26. Gas franchise, 50-yr., Danville, Ill.....May 11
May 26. Mortar carriages, Washington, D.C.....May 11
May 26. Colecting garbage, etc., Binghamton, N. Y.May 4
Advertised, Eng. News, May 4 to 18.
May 27. Bridge, Washington, D. C.....May 4
Advertised, Engineering News, May 4.
May 27. U. S. building work, San Francisco, Cal..Apr. 27
Advertised, Eng. News, Apr. 27 to May 4.
May 27. Water pipe, etc., Washington, D. C.....Apr. 27
Advertised, Engineering News, Apr. 27.
May 27. Wharf, Tompkinsville, N. Y.....May 11
Advertised, Eng. News, May 11 and 18.
May 29. Jail building plans, New Orleans, La.....May 11
May 29. Court house, Medicine Hat, N. W. Ter.....May 11
May 29. Dredging, San Francisco, Cal.....May 11
May 29. School building, Toledo, O.....May 11
May 29. Fire-alarm system, New Orleans, La.....May 4
Advertised, Eng. News, May 4 to 25.
May 29. Movable dam, Louisville, Ky.....May 4
May 29. Pumping engine, Allentown, Pa.....May 4
Advertised, Eng. News, May 4 to 25.
May 30. Drill hall, Vancouver, B. C.....May 11
May 31. Bake house,, Fort Wadsworth (S.I.), N.Y...May 11
May 31. Anchors (9), Washington, D. C.....May 11
May 31. Floating dock, Havana, Cuoa.....May 11
May 31. Jetties, St. John's River, Fla.....May 4
Advertised, Eng. News, May 4 to 25.
May 31. Improving water-works, Pendleton, Ore....May 4
Advertised, Eng. News, May 4 and 11.
May 31. Dams & shore protection, Rock Island, Ill.Apr. 27
Advertised, Eng. News, Apr. 27 to May 18.
May 31. Plate girder railway bridge, Joliet, Ill...Apr. 13
Advertised, Engineering News, Apr. 13.
May 31. Dredges (2), St. Louis, Mo.....Apr. 20
Advertised, Eng. News, Apr. 20 to May 25.
June 1. Plans for market, Leeds, England.....Feb. 16
June 1. Electric plant, Prineville, Ore.....Apr. 13
June 1. Water and sewer bonds, Prescott, Ont....Apr. 27
June 1. Water pipe, Michigan City, Ind.....May 11
June 1. Sewers, Honolulu, H. I.....May 11
June 2. Paving, Shelby, O.....May 11
Advertised, Engineering News, May 11.
June 2. Paving, Cincinnati, O.....May 11
June 3. Building, Harrogate, England.....Apr. 13
June 3. Removing rock, East River, N. Y.....May 4
Advertised, Eng. News, May 4 to 25.
June 3. Dredging, Keyport, N. J.....May 4
Advertised, Eng. News, May 4 to 25.
June 5. Sewer materials, Santa Monica, Cal.....May 11
June 5. Artesian well, Indianola, Miss.....May 11
June 5. Water softening plant, Winnipeg, Man....May 11
June 5. Street bonds, Shelby, O.....May 11
Advertised, Engineering News, May 11.
June 5. Excavating reservoir, Clinton, Mass.....Apr. 27
Advertised, Eng. News, Apr. 27 and May 4.
June 6. Hospital buildings, Auburn, Cal.....Apr. 27
June 6. Bridges (5), Cumberland, Md.....May 11
June 7. U. S. building, Detroit, Mich.....May 11
Advertised, Eng. News, May 11 and 18.
June 7. Electric plant, London, England.....May 4
June 8. Dredging, New Bedford, mass.....May 11
Advertised, Eng. News, May 11 to June 1.
June 8. Dredging, Rancocas River, N. J.....May 11
June 8. Dredging, Alloway Creek, N. J.....May 11
June 8. Dredging, New Haven, Conn.....May 11
Advertised, Eng. News, May 11 to June 1.
June 8. Removal of wreck, Alloway Creek, N. J...May 11
June 9. Piers, Holland, Mich.....May 11
Advertised, Eng. News, May 11 to June 1.
June 9. Dredging, Bridgeport Conn.....May 11
Advertised, Eng. News, May 11 to June 1.
June 10. Boiler house, Bremerton, Wash.....May 4
June 10. Timber dry dock, Mare Island, Cal.....Apr. 13
June 14. Garbage removal, Hoboken, N. J.....May 11
June 15. Electric lighting, Petrolia, Ont.....May 11
June 15. Pump and intake, Michigan City, Ind.....May 11
June 15. Jail building, Oglethorpe, Ga.....May 4
June 22. Court house, Marietta, Ga.....May 11
June 27. Pumping engines (2), St. Louis, Mo.....May 4
June 30. Street work, Parabelem, Brazil.....May 4
June 30. Electric r'y (23 miles), Shanghai, China..Mar. 2
Advertised, Eng. News, Nov. 17 to Dec. 8.
July 5. Drainage system, New Orleans, La.....May 4
Advertised, Eng. News, May 4 to June 29.
July 10. Harbor and docks, Naples, Italy.....May 11
July 30. Water-works, Milnor, N. Dak.....May 11
Oct. 1. Electric street railway, Moscow, Russia..Mar. 9
No date. Garbage disposal plant, Savannah, Ga....May 4
Advertised, Eng. News, May 4 and 11.
" . Brick and stone paving, etc., Ithaca, N. Y.Apr. 20
Advertised, Eng. News, Apr. 20 to May 4.
No date. Water-works, Sanford, N. C.....May 11

RAILWAYS.

ARKANSAS.—W. H. Heider, Louisville, Ky., informs us that propositions are now being received by himself and associates for constructing about ten miles of railway between Dumas and Medford, Ark. It has not been decided when contracts will be let, but it is expected to begin work this year. No company has been organized.

ATCHISON, TOPEKA & SANTA FE.—Paul Morton, Second Vice-Pres., Chicago, Ill., is quoted as stating that this company will spend about $1,000,000 in track work and $500,000 in grading, masonry and bridge work this year, so as to finally complete the company's extensive plans for improvement. J. Dun, Ch. Engr., Topeka, Kan.

BALTIMORE & OHIO SOUTHWESTERN.—We are informed that work has just been commenced on the construction of a 1,000-ft. tunnel (previously mentioned) on this line about 150 miles west of Cincinnati, O. The contract is held by the Mason & Hoge Co., with headquarters at Frankfort, Ky. H. Pierce, Engr. Maintenance of Way, Huntington, W. Va.

BLACK DIAMOND, MINERAL & TIMBER BELT.—Col. Albert E. Boone, Pres., Zanesville, O., informs us that this proposed line will run from Sharpsburg, Ky., on the main line of the Ghent, Cynthiana & Tidewater Ry., to Jellico, via West Liberty, Salyersville, Paintsville, Prestonsburg, Pikeville, Harlan and Pineville. The object of the line is to open up coke, iron and coal fields.

BRAZIL.—Reports state that the Porto Alegre & Novo Hamburgo Ry. Co., now operating 27 miles of line, is contemplating an extension through the districts of S. Leopoldo, Novo Petropolis and others, which at present are about 60 miles from railway connections. W. Tweedie, Gen. Mgr. and Engr., Porto Alegre, Brazil.

CANADA ATLANTIC.—Mackenzie & Mann., Ottawa, Ont., are stated to have been awarded the contract for building about four miles of spur track from the main line of the Ottawa, Arnprior & Parry Sound division into the town of Parry Sound. Owing to the heavy rock work, it is estimated that the work will cost about $150,000. G. A. Mountain, Ch. Engr., Ottawa.

CANADIAN PACIFIC.—Reports state that this company proposes to replace its 80-lb. rail by a 100-lb. rail, and that a preliminary order for 50 miles on the approaches to Montreal has just been placed.

CENTRAL NEW YORK & NORTHERN.—Wm. W. Clark, Wayland, N. Y., informs us that the officers of this new company have not yet been elected, and that no steps have been taken beyond the act of incorporation. The proposed route is from Wayland to Macedon, N. Y., via Springwater, Canadice, Bloomfield, etc., 60 miles.

COPPER RANGE.—A. F. McGillis, Menominee, Mich., is reported to have been awarded the contract for the culverts, piling and bridging on this proposed line from Houghton southwest to Rockland, Mich., 45 miles, calling for the construction of 17 bridges. C. E. Loss & Co., Pullman Bldg., Chicago, hold the general contract. Thos. Appleton, Ch. Engr., Houghton, Mich.

GREAT NORTHERN.—Reports state that Caughren & Riley, St. Cloud, Minn., have received the contract for constructing about ten miles of road between Fort Benton and Crono, Mont.

HIDALGO & NORTHEASTERN.—Press reports state that this line will be extended from Pachuca, State of Hidalgo, to the port of Tuxpan, with a possible extension along the coast from Tuxpan to Tampico. Work must be completed within 18 months. Gabriel Mancera, Lessee and Gen. Mgr., Mexico, Mex.

MINNEAPOLIS & ST. LOUIS.—Johnson Bros. & Faught St. Elmo, Ill., are reported to have been awarded the contract May 3 for the construction of the extension of this line from New Ulm, Minn., south 135 miles into Iowa, as described in our last issue. Contract includes grading, bridging, masonry, ballasting and track-laying.

MOSCOW, CAMDEN & SAN AUGUSTINE.—A meeting of this company will be held at Camden, Tex., on June 23, according to reports, to consider the feasibility of building the projected line from Moscow to Camden, about 50 miles. E. A. Carter, Camden, and C. H. Jones, Galveston, Tex., are incorporators.

NATIONAL TEHUANTEPEC.—Reports state that Pierson & Son, English contractors, have decided to take possession of this system between Coatzacoalcos and Salina Cruz, Mexico, 192 miles in length, in August.

NOVA SCOTIA.—Mackenzie & Mann, Ottawa, Ont., are reported to have received the franchise for the construction of about 100 miles of railway from Broad Cove, Cape Breton, to the straits of Canso, work to begin this spring. It has been agreed with the Provincial Government to turn out more than 25,000 tons of coal a year in consideration of receiving a subsidy of $4,000 a mile, instead of the usual $3,200 subsidy.

PERSIA.—Reports state that a corps of Russian engineers has reached a point on the Little Zab River, northeast of Bagdad, having completed the survey thus far for the extension of the Tiflis and Kars railway to the Persian Gulf.

PORT ANGELES EASTERN.—The Van Orman Co., Seattle, Wash., is reported to have secured the contract to build the portion of this line where it is to run on piles. The trackage will be about 2½ miles. It is the intention to build the piling track westward and as far as the National Packing Co.'s plant; the whole will then approximate about five miles of water trackage. Isaac C. Atkinson, Gen. Mgr. E. A. Fitz Henry, Ch. Engr., both of Port Angeles, Wash.

RICHMOND, NICHOLASVILLE, IRVINE & BEATTYVILLE.—This line was sold at Versailles, Ky., May 1, according to reports, to G. P. Cochran, representing the interests of Adolph Segal, Philadelphia, for $291,000.

RUTLAND-CANADIAN.—John W. Burke, Ch. Engr., South Hero, Vt., informs us that O'Brien & Sheehan, of New York, the general contractors, broke ground on March 9, and are now working steam shovels and trains on two sections, and have light grading outfits on two others. The Edge Moor Bridge Works has the shop work on three draw spans well advanced. The route of proposed line is from Burlington, Vt., to Noyan Junction, Que., via Colchester, South Hero, Grand Isle, North Hero and Alburg, 47 miles. F. R. Wells, Pres., Burlington.

SEABOARD AIR LINE.—W. J. Oliver, Langley, S. C., has been awarded the contract for building a 25-mile section of the proposed extension of this system from Richmond, Va., to Ridgeway, N. C.; work is to commence at once.

SHAWNEE, OKLAHOMA & INDIAN TERRITORY.—This company is about to be incorporated in Oklahoma to build a line from Shawnee, Okla., to Sacred Heart Mission, Pottawatomie county, and thence to Coalgate, Ind. Ter., with a branch from Shawnee to Keokuk Falls and Stroud. C. N. Points, Shawnee; Thomas McCalgan, Jefferson City, M.; W. F. Callahan, Omaha, directors.

SNAKE RIVER VALLEY.—W. H. Kennedy, Ch. Engr., Portland, Ore., informs us that an extension of this line is now under construction from Wallula Junction to Grange City, Ore., 65.7 miles. A line has also been located from Riparia, Wash., to Lewiston, Idaho, 70 miles.

SOUTH CAROLINA & GEORGIA.—It is announced that this system has been purchased by the Southern Ry. Co., and that it would be equipped at once with steel rails and improved rolling stock.

SOUTHERN MISSOURI & ARKANSAS.—Incorporated in Missouri, May 3, with $17,000,000 capital stock, to operate the St. Louis, Cape Girardeau & Fort Smith Ry., operating 94 miles of track from Cape Girardeau to Current River, Carter county, Mo., 100 miles. Edward Hidden, Newman Erb and H. L. Lamb are directors.

SOUTH AFRICA.—The Philadelphia Commercial Museum furnishes us with the following information regarding railway construction work in progress or in contemplation in the South African Colonies: In the Cape Colony the government has about concluded an agreement with the Thames Iron Works & Shipbuilding Co., Ltd., Blackwell, E., London, Eng., for the construction of lines, (1), from Oodtshoorn to Klipplatt; (2) from Somerset East to Kingwilliamstown, and, (3), from Mossel Bay, via George to Oudtshoorn. The Mossel Bay-George-Oudtshoorn line is to be completed not later than July 31, 1901, and the other two lines, not later than June 30, 1900, the company receiving equivalent to $20,750 a mile for the construction of the Oudtshoorn-Klipplaat line. A survey for other lines is being made from De Aar towards Prieska, and another from a point between Matjesfontein and Fraserburg road to Canarvon. Instructions are about to be issued for the survey of a line from Aliwal North to New England, and perhaps on to the town of Barkly East or its vicinity, the proposed terminus. These lines are to be 2-ft. gage, with the exception, probably, of the section that may ultimately become a main trunk line joining Cape Town and Natal. Surveys have also been made for other new lines, the most important of which is a line through Kaffraria to the Natal border, with a probable branch to Port St. Johns. Surveys have also been made of a proposed bridge over the Buffalo River at East London. It is proposed to connect Queenstown with Whittlesea, Cape Colony, 20 miles, by a light railway; and the construction of a branch railway from Port Albuquerque to the Lingham Co.'s property, Delagoa Bay, has been sanctioned by the Portuguese authorities. The Natal Government is proceeding with the construction of north and south coast lines, the former through Verulam towards Zululand and the latter towards the Cape border. Another south branch was opened to Richmond last year and may possibly be subsequently extended to form a junction with the Cape line through Kaffraria. These three lines are being laid with 45-lb. rails released from the main line, which is being relaid with 80-lb. steel rails on Karri and Jarrah wood sleepers, 7 ft. 3 ins., x 9 ins. x 4½ ins. In the Transvaal powers were granted last year to build five or six other lines (1), from Pretoria, via Nylstroom to Pietersburg, Pela open to the Warm Baths, 60 miles from Pretoria; (2), from Komatipoort to Leydsdorp; (3), and (4), from a point on the Delagoa Bay line at or near Machadedorp to Lydenburg in the north and to Ermelo in the south, (5), from Vryheid to Dundee in Natal. The Netherlands Co. proposes also to build a second line south of Johannesburg from Boksburg to Krugersdorp, for the conveyance of coal, explosives, etc., to the mines. The Orange Free State acquired by purchase from Cape Colony at the expense of a debt of about £2,000,000 Sterling, railways bringing in a yearly profit of £580,000, on which only £60,000 a year has to be paid for interest. It has, therefore, been able to set aside a surplus every year for the construction of new lines. By a Volksraad resolution the following new lines have been authorized and are now under construction: (1). From Springfontein to Fauresmith; (2), from Bloemfontein to Wepener; (3), from Winberg Road to Clocolan, with branches to Ficksberg and Ladybrand; (4), from Wolvehoek to Bethlehem; (5), from Bethlehem to Harrismith. An offer has been made to complete these five lines at a cost of not more than £6,850 a mile, bearing interest at 3½%. Last summer the Free State Raad decided to build a railway by concession from Bloemfontein to Kimberley and to extend the Springfontein-Fauresmith line so as to join the Bloemfontein-Kimberley line at a point at or near Petrusburg, and a contract has recently been signed by the Orange Free State Government for the construction by a syndicate of a railway from Brandford to Hoopstad, via Bultfontein. There are at present 4,729 miles of railway open and working in South Africa, and at least 2,700 more miles are either actually under construction or soon will be. Ten years ago there were barely 2,000 miles completed, and 20 years ago not more than 500 miles. Of the total miles open 2,264 are in the Cape Colony, 405 in Natal, 361 in the Free State, 777 in the Transvaal, 604 in Rhodesia, and 256 in the Portuguese territory. The Cape total includes six or seven private lines, several of which are of considerable importance. The lines owned and worked by the Cape Government amount to 1,900 miles, and cost, with rolling stock, about £20,000,000 Sterling, or £10,000 a mile. This does not include the lines through the Free State, which were handed over at the beginning of last year for £2,600,000. The capital invested in the Natal lines is about £6,750,000 Sterling, or £15,000 a mile. The 717 miles of the Netherlands Co. have cost nearly £9,000,000, or £12,500 a mile. This gives a total of over £38,000,000 for the cost of the 3,500 miles of railway owned by the above four administrations. Adding the probable cost of the extra 1,200 miles owned by the various other administrations in the country the total expenditure to date on railway construction in South Africa may be put down at not less than £42,000,000, or at the rate of £56 for each of the white inhabitants of the country, which does not average more than 163 a mile of railway open. The Cape Government railways are divided into the following four systems: Western system, 592 miles open, from Cape Town to De Aar, including the Malmesbury, Sir Lowrys Pass, Wynburg, and Simonstown branches; Midland system, 704 miles, from Port Elizabeth to De Aar, including the Grahamstown and Colesberg branches; Eastern system, 331 miles, from East London to Bethulie Bridge, including the Kingwilliamstown and Aliwal North branches, and the Northern system, 273 miles, from De Aar to Vryburg; principal station, Kimberley, no branches. It should be stated that bids for the supply of railway carriages are not called for in Cape Colony. The Cape government sends all orders to the Agent-General, 112 Victoria St., S. W., London, Eng., who executes the same as he considers most advantageous. Up to the present the orders have been given to an English company, which in its turn procures whatever it does not manufacture in England from the United States. If proper representations were made and American makers given opportunity to bid, public opinion would possibly compel the government to order from the United States, if the prices were appreciably lower than those heretofore obtained.

SYRIA-OTTOMAN.—G. Bie Raondal, American Consul at Beirut, Syria, reports that this proposed line will run from Haifa, a seaport town 75 miles south of Beirut, to Damascus, a distance of 142 miles, with an extension from Damascus to Bagdad and the Persian Gulf. The work is to be completed to Damascus within two years. Material and equipment will probably be bought in America. Sir Douglas Fox, Ch. Engr., 28 Victoria St., N. W., London; G. Schumacher, Supt of Works, Haifa.

WYOMING, SOUTH DAKOTA & EASTERN.—This company was incorporated in South Dakota, May 4, with $6,500,000 capital stock, to build a line across the reservation at Pierre to Rapid City, S. Dak. J. R. Brennan, Pres.; J. W. Fowler, Treas., both of Rapid City.

STREET AND ELECTRIC RAILWAYS.

BRIDGETON, ME.—The Bridgeton & Saco R. R. Co. has been granted permission by the state railroad commission to build a branch to the mills of A. Young, Hiram, Me.

BOSTON, MASS.—The board of aldermen of Jamaica Plain has granted the petition of the West Roxbury & Roslindale St. Ry. Co. for the right to build a second track on its Washington St. line, and other extensions.

HYDE PARK, MASS.—The Hyde Park St. Ry. Co. has been organized with $15,000 capital stock to build 2½ miles of standard gage line from Hyde Park to Milton. Robert Bleakie, F. N. Tirrell and Wm. J. Stuart, of Hyde Park, are directors.

ELMIRA, N. Y.—Work has been begun with 200 men, according to reports, on the construction of the proposed Elmira & Seneca Lake Ry., from Horseheads to Watkins, via Pine Valley, Millport and Mountain Falls, a distance of 17 miles, 14 miles of which are over a private right of way. The contract is held by the American Engineering Co., Bound Brook, N. J., and 710 Harrison Bldg., Philadelphia, Pa. Gen. J. E. Mulford, Pres., Mountain Falls, N. Y.; H. M. Herbert, Ch. Engr., Bound Brook, N. J.

PEEKSKILL, N. Y.—We are informed that Sanderson & Porter, 31 Nassau St., New York, hold the contract for building 6 miles of electric railway for the Peekskill Traction Co., and that the capital for construction has been secured. The village trustees have extended the time of expiration of the company's franchise from May 13 to July 1. Frank Frye, Pres., Peekskill.

SARATOGA SPRINGS, N. Y.—The Saratoga Northern Ry. Co. has been granted a franchise to build its line through this village. John L. Henning, Atty.

WARRENSBURG, N. Y.—Reports state that Louis W. Emerson, Warrensburg, has bought a large interest in the Glens Falls & Lake George Plank Road Co., with the view of building an electric line between Glens Falls and Warrensburg.

HOBOKEN, N. J.—J. E. Howell, Newark, N. J., has been appointed as Master to sell the property of the New Jersey Electric Ry. Co., on application of Wm. B. Gourley. No bid for less than $1 000,000 will be accepted. J. L. Heins, Pres., Jersey City.

HOLLAND, N. J.—The Holland Tramway Co. has been organized, with a capital stock of $10,000, to operate a line in Hunterdon county. Allen Rapp, J. Walter Ingham, and James Ingham are incorporators.

PLAINFIELD, N. J.—It is reported that the proposed extension of the Plainfield St. Ry. to Scotch Plains, is now being staked out by H. C. Van Emburgh, Plainfield. L. W. Serrell, the contractor, will probably begin construction work in a short time.

ALLENPORT, PA.—The Charlerol, Belle Vernon & Fayette City St. Ry. Co. is reported to have completed negotiations for the extension of its lines to Allenport.

NORRISTOWN, PA.—The Schuylkill Traction Co., of Norristown, has been reorganized and its capital stock increased about $50,000, so as to enable the construction of new turnouts and the purchase of new feed wire. N. H. Larzelere, Pres., Norristown; A. R. Davids, Gen. Mgr.

PERKASIE, PA.—John H. Pascoe, Pres. of Inland Traction Co., Allentown, Pa., informs us that Gleason & Kelly, Syracuse, N. Y., were awarded the contract, May 6, for constructing the proposed electric line from Perkasie to Lansdale, via Sellersville, Telford, Reliance, Souderton, Hatfield and North Hatfield, a distance of 12 miles. F. J. Crilly, Treas., Philadelphia.

DOVER, DEL.—The Dover & Milford Electric Ry. Co. is being organized in this city to build a line proposed to connect the towns of Kent county with Bower's Beach and Woodland Beach on the Delaware Bay. The American Electric Ry. Co. is said to be promoting the project. Wm. F. Harrity, Treas., Philadelphia.

HAMPTON, VA.—The Newport News & Old Point Ry. & Electric Co. has petitioned the supervisors of Elizabeth City county for a franchise to build a second track from Hampton Bridge to Mill Creek Bridge.

CLAXTON, GA.—It is announced that capitalists of Bullock and Tattnall counties have organized a company to build an electric line from Claxton to Statesboro, 25 miles. The Canoochee River, 1½ miles from this city, will be used to furnish power.

INDIANAPOLIS, IND.—Bids are asked until May 15 for the survey for the proposed electric street railway from the city limits of Indianapolis to Martinsville, Morgan county, along the Mooresville free gravel road, 30 miles. J. C. Tarkington, Gen. Mgr., 218 North Meridian St.

LA PORTE, IND.—Work is reported to have been commenced on the construction of the 13 miles of trolley line proposed to be built between Laporte and Michigan City by Joseph I. Irwin, J. W. Lovett and C. W. Hoover, of Anderson, Ind.

RICHMOND, IND.—The commissioners of Franklin county have granted a franchise to the Richmond Interurban Ry. Co. This company, which proposes to build from Richmond to Harrison, O., now has a clear right of way through Wayne, Union and Franklin counties.

ANN ARBOR, MICH.—Hudson T. Morton, Ann Arbor, proposes to build 3½ miles of additional electric line in this city.

GRAND RAPIDS, MICH.—Thomas F. Carroll, Pres. Grand Rapids, Grand Haven & Muskegon Ry. Co., Grand Rapids, informs us that franchises have all been secured, and that bonds for construction purposes will soon be issued. The route is from Grand Rapids to Muskegon, via Coopersville, Spring Lake and Grand Haven, 41 miles.

MUSKEGON, MICH.—Reports state that the Muskegon Electric Ry. Co. will soon install a new 300-HP. Ball tandem compound engine and a 300-K-W. Westinghouse generator in its power plant. F. A. Nims, Mgr.

RACINE, WIS.—It is announced that the Milwaukee Light, Heat & Power Co., of Milwaukee, has purchased the Belle City Electric Ry. and the Milwaukee, Racine & Kenosha Electric Ry.

WHITEBEAR LAKE, MINN.—McAllister & Co., Minneapolis, Minn., are reported to have received the contract for grading the right of way for the proposed electric line from Minneapolis to Whitebear Lake. Work is to be completed about July 1.

CRIPPLE CREEK, COLO.—An ordinance has been introduced in the council granting a franchise to W. H. Swift, R. Abeles and H. Taussig, St. Louis, Mo., to build a line in this city.

PHOENIX, ARIZ.—The Pacific Electric Ry. Co. has been incorporated in Arizona, with a capital stock of $200,000, to construct and operate an electric railway from Phoenix to Tempe, and also to operate in Los Angeles, Cal. H. E. Huntington, H. W. Hellman and Frank R. Flint, of Los Angeles, are incorporators.

REDLANDS, CAL.—Bids are asked until May 31 for the purchase of a street railway franchise, according to the application of the Redlands St. Ry. L. W. Clark, Cy. Clk.

NELSON, B. C.—It is announced that the British Electric Traction Co., of London, has applied for a charter to construct a tramway system at Nelson.

ELECTRIC LIGHT AND POWER.

BATH, ME.—There is a new plan for reorganization of the Bath Gas & Electric Co. An assessment of 7½% will be required for repairs and improvements.

BIDDEFORD, ME.—Local papers state that plans are being prepared by the York Light & Heat Co. for a plant in this city and for one in Saco. J. G. Shaw, Agent.

BRIDGETON, ME.—The Bridgeton & Harrison Electric Light & Power Co. has increased its capital stock from $10,000 to $50,000. W. E. Sanborn, Pres.; Secy., Edward C. Walker.

PORTLAND, ME.—The council has granted the Portland Electric Light Co. permission to build a plant.

WORCESTER, MASS.—The Bradley & Hubbard Mfg. Co., Meriden, Conn., has been awarded the contract, at $8,462, by the county commissioners, for furnishing the electric light fixtures for the new court house building.

DEEPRIVER, CONN.—E. W. Shedd, Civil Engr., Providence, R. I., and others, are reported as interested in a proposed power plant in Leesville. It is stated that work will soon be begun on a plant to develop 1,500 HP. E. C. Hungerford and Chas. L. Griswold, Chester, Conn.

CHARLOTTE, N. Y.—P. M. Schwartz, Clk., writes us that the proposed incandescent plant is to be operated in connection with the arc plant just installed. Bids, it is stated, for $6,000 of bonds for the plant are wanted until May 17. Geo. P. Goulding, Pres., Municipal Bd.

EAST SYRACUSE, N. Y.—The village board has directed the president to appoint a committee to secure estimates of cost for a plant.

MOUNT MORRIS, N. Y.—The citizens are reported as considering the question of issuing $36,000 in 4% bonds for rebuilding the power dam recently washed away.

WEST SAND LAKE, N. Y.—It is proposed to build a plant, the power to be secured from Wynaneskill River, according to reports.

CAMDEN, N. J.—The commission of public instruction has asked for new bids for a plant for the new high school, to cost about $6,000.

BRIDGEPORT, PA.—An election will soon be held to vote on the question of issuing $10,000 for a plant.

MECHANICSBURG, PA.—The council is reported as considering bids for public lighting from the Cumberland Light & Heat Co., New Cumberland; the Manhattan Electric Co., Harrisburg; F. E. Bailey & Co., Reading.

PHILADELPHIA, PA.—The Edison Electric Light Co. is said to be preparing to erect a new power plant in this city, the location of which is not yet made public. Engineers are now at work on the plans.

YORK, PA.—Walter M. Franklin, Lancaster, Pa., writes us that nothing has yet been done towards constructing a plant. Engineers are investigating the matter of what power may be developed at a point on the west side of the Susquehanna River in York county. It is thought that about 35,000 HP. can be developed. It is located 13 miles from Lancaster and 39 miles from Baltimore. No company has been organized, and the site is for sale.

BALTIMORE, MD.—By the consolidation of the Edison Electric Illuminating Co., the Brush Electric Co., and the Northern Electric Co., into the United Electric Light & Power Co., which took place May 6, the latter company now has full control of the street railways and the electric lighting of the city. It is said the purchase price was $3,525,000. The syndicate proposes to call the street railway the United Ry. Co., and the lighting is to be done by the United Electric Light & Power Co. They are to have the same officers, but be two separate companies.

NEWPORT NEWS, VA.—Bids are asked until May 26 for lighting the streets of the city. J. A. Massie, Cy. Clk.

SHEPHERDSTOWN, W. VA.—Jno. L. Lewis, of Harpers Ferry, W. Va., and Luther H. Leber, of Littletown, Pa., are reported as having applied for a franchise for a plant here. The Shepherdstown Electric Light Co. will be organized.

WAYNESVILLE, N. C.—This place is reported to have voted to issue bonds for a plant.

MACON, GA.—I. B. English writes us that the Ocmulgee Electric Light, Water & Power Co. is being formed, and as soon as the charter is obtained the company will be prepared to receive propositions.

GUTHRIE, KY.—It is reported that a plant will be built here.

CINCINNATI, O.—Bert L. Baldwin, 72 Perin Bldg., Cincinnati, has submitted estimates for a plant for the court house to cost about $31,000.

DOYLESTOWN, O.—This place voted April 29 to grant a franchise for a plant.

FORT WAYNE, IND.—Louis Fox, Fort Wayne, writes us that the matter of an electric plant has not yet been considered. It is expected that action will be taken soon

DETROIT, MICH.—Press reports state that the Central Trust Co. of New York has foreclosed a mortgage for $350,000 against the Detroit Electric Light & Power Co. The interest on the mortgage has been unpaid since October, 1896. The present indebtedness is $413,000. The plant will probably be operated under an agreement. Nathan G. Williams, Receiver.

KALAMAZOO, MICH.—The Kalamazoo Valley Electric Co. has submitted a new proposition to the council for electric lighting. W. A. Foote, Pres.

SCHOOLCRAFT, MICH.—H. I. Allen, of the light committee, writes us that the council has passed a resolution to grant a franchise for an electric light plant to competent and responsible parties. It is considered more than probable that the council will desire to purchase the plant. It is hoped that the light committee will be able to put this plant in operation in the next 90 days.

SPARTA, MICH.—It is stated that a franchise has been granted to Jacob L. Hisey, of Jackson & Hisey, to erect and operate a plant for a period of ten years. The town is to be lighted by ten 1,200-c. p. arc lamps and two 32-c. p. incandescent lamps.

CHICAGO, ILL.—Bids are asked until May 22 for furnishing and erecting two self-supporting steel stacks and also for furnishing the following materials and supplies: 400 arc lamps and hangers; 100 arc lamp posts; 50,000 ft. of rubber covered, lead encased, No. 6 conductor, electric light cable; 10,120 of flexible rubber covered cable for lamp posts; 500 ft. of flexible rubber covered cable for lamps; 4,125 ft. of ten-conductor rubber covered, taped and braided, aerial fire alarm cable; 5,600 ft. of 19-conductor rubber covered, taped and braided, aerial fire alarm cable. E. B. Ellicott, Cy. Electrician, City Hall.

DAVENPORT, ILL.—The Davenport Business Men's Association is again considering the question of building a power dam across the river.

WARREN, ILL.—A. S. Tinker writes us that he is investigating the question of building a plant.

ELROY, WIS.—An engineer will be engaged to submit estimates for a plant, after which a bond election will be held. Jesse Forbe, Pres. Aldermen.

DULUTH, MINN.—City Engineer McGilvray has reported that a new engine would be required at the old pumping station for converting it into an electric plant. The cost of a 500-HP. engine will be about $14,000.

MINNEAPOLIS, MINN.—Chas. R. Alrich, Arch., 708 Lumber Exchange, Minneapolis, writes us that bids will be received as soon as possible for a plant for the University of Minnesota. It will have a 25 or 30-K-W. generator, 30 or 35-HP. engine, direct-connected, two 100-HP. boilers, one artesian pump, pipe, wire, etc.

MANDAN, N. DAK.—The Northern Pacific Ry. Co., it is stated, will put in a plant and water-works.

KANSAS CITY, MO.—The supervising architect, Washington, D. C., received the following bids May 2 for installing a plant in the U. S. post office building at Kansas City, (1) being for engines, dynamos, foundations, etc.; (2) for generators and switchboards; (3) plant complete: Westinghouse Electric & Mfg. Co., Pittsburg, Pa. (3) Buckeye cross compound engines, $23,734; tandem $23,834; Harrisburg tandem, $23,799; Ball Engine Co. Erie, Pa., (1) horizontal cross compound, $12,200; vertical $12,500; F. A. LaRoche & Co., New York. (2) $9,000; Westinghouse, Church, Kerr & Co., New York. (1) $12,211; (2) $9,952; (3) $22,163; C. & C. Electric Co., New York, (2) $8,927; General Electric Co., Schenectady, N. Y., (2) $8,812; if pink or Tennessee marble is used $8,867; Siemens & Halske Electric Co., Washington, D. C., (2) $8,950; Crocker-Wheeler Co., New York, N. Y. (2) $8,858; Kingsbury, Samuel & Co., Baltimore, Md. for the Payne Engineering Co., (1) $10,830; for the Edison Electric Mfg. Co., (2) $8,125; Thresher Electrical Co., Dayton, O., (2) $8,750; (3) Buckeye horizontal $20,600; vertical, $20,400; Harrisburg $20,550; Buckeye Engine Co., Salem, O., (1) tandem compound engine, $11,350, vertical cross compound, $11,750.

SAN ANGELO, TEX.—It is stated that the question of building a new plant is being considered.

SEATTLE, WASH.—The Union Electric Co. is reported by local papers to be negotiating with the Seattle Steam Heat & Power Co. for a site for an auxiliary plant to cost about $450,000. The plants and property of certain companies are to be bought and extended. The Washington Power Transmission Co. is interested.

BLOOMINGTON, CAL.—G. T. Kyling, it is reported, is preparing to put in a plant.

LOS ANGELES, CAL.—New specifications for electric lighting for next year are being prepared. The council proposes to call for bids in time to allow more competition for the contract. The specifications will call for 180 additional 2,000-c. p. arc lights, making 822 in all. Councilman Vetter, Chn. Com.

REDLANDS, CAL.—H. H. Sinclair, Gen. Mgr. Redlands Electric Light & Power Co., writes us that work on power plant No. 2 of 600 HP. is about finished, and the work will begin this summer on power No. 3, of 3,000 HP. F. C. Finkle, Ch. Engr., Redlands, Cal.

SAN PEDRO, CAL.—M. Ghriest is reported to have applied for a franchise for a plant.

VENTURA, CAL.—This place is reported to have decided to build a plant.

MONTREAL, QUE.—Press reports state that the Shawinigan Water & Power Co., which proposes to develop the power at the Shawinigan Falls on the St. Maurice River, back of Three Rivers, has let the contract for the canals, foundations, etc., necessary for the development of 30,000 HP., to the Warren-Scharf Asphalt Paving Co., 132d St., near 12th Ave., New York. This contract includes also the building of a railway to connect with the Great Northern Ry., 4¼ miles, and calls for the expenditure of about $300,000. It is understood that the company has already made arrangements to sell sufficient of its power to warrant entering so far upon this development. The contract, it is stated, for the electrical plant will soon be awarded.

ST. HYACINTHE, QUE.—Press reports state as follows: For some months past negotiations have been in progress between the St. Hyacinthe Hydraulic Power & Electric Light Co. and the St. Hyacinthe Gas Works Co., at present operated by Louis Brousseau and a syndicate of Toronto, for the purchase by the latter of the two plants, with a view to the operating and managing of both under the one head. The negotiations have now reached such a stage that a final offer was made May 1 of $175,000 for the plants, subject to the approval of the council. It is the intention of the syndicate to rebuild a portion of the dam at the power house, which is considered somewhat small for the requirements, as well as to alter the electric system. The power house is situated five miles from St. Hyacinthe at a place called the Flats.

BARRIE, ONT.—Bids are asked until May 17 for furnishing the following for the plant: One 125-HP. low speed steam; two independent condensers, 125 HP. and 200 HP.; two approved steam boilers, 125 HP. each; one duplex steam feed pump, for above boilers; all necessary piping and connections. Roderick J. Parke, Consult. Engr., 310 Temple Bldg., Toronto; E. Donnell, Town Clk.

PETROLIA, ONT.—Bids are asked by the town clerk until June 15 for lighting the town for five years with 1,600-c. p. arc lights.

WINNIPEG, MAN.—C. J. Brown, Cy. Clk., writes us that the following bids were received April 17 for furnishing the machinery and for erecting a plant:

Bidder.	Schedules. "A" dynamo	"C" lamps
*Western Electric Co., Chicago	$5,320	$4,562
Canadian Gen. Elec. Co., Toronto, Ont.	6,580	4,210
United Electric Co., Toronto, Ont.	4,444	3,700

*Awarded contract. †With 50 extra globes.

VIENNA, AUSTRIA.—The municipal council is reported to have passed a resolution authorizing the raising of about $7,500,000 for the establishment of a plant.

BRIDGES

MIDDLESEX, VT.—We are informed that a 90-ft. bridge is to be erected; the roadway will be 16 ft. wide.

MONTPELIER, VT.—We are informed that a new 220-ft. span bridge will soon be placed by the city across the Winooski River.

ALBANY, N. Y.—Bids are asked by the Superintendent of Public Works until May 16 for the construction of 8 bridges, as stated in our advertising columns. A bill authorizing the construction of a bridge over the Hudson River at the foot of State St. is being considered.

BRIGHTON, N. Y.—According to reports, bids will soon be advertised for the construction of an arch bridge over Allen's Creek; estimated cost, $2,000.

BROOKLYN, N. Y.—Reports state that the Board of Estimate has authorized the issue of $200,000 in bonds for a new bridge over Newtown Creek at Grand Ave.

BUFFALO, N. Y.—Bids are asked until May 16 for masonry, paving, and other work necessary for constructing piers, abutments of, and approaches to a viaduct over the New York, Chicago & St. Louis R. R., the Western New York & Pennsylvania Ry., and the Buffalo Creek R. R., in Abbott Road. F. V. C. Bardol, Ch. Engr.

BUFFALO, N. Y.—Reports state that the contract for the substructure for the viaduct to be erected in Elk St. and Abbott Road has been awarded to W. F. Boysen, at $114,780.

MOUNTAIN VIEW, N. Y.—Reports state that an iron bridge will soon be built at Mountain View.

ROCHESTER, N. Y.—Reports state that on May 9 the governor signed the bill which provides for the construction of a bridge over the Erie Canal; appropriation, $75,000.

TURIN, N. Y.—Reports state that a bill has been passed appropriating $6,000 for the construction of a bridge between the towns of Greig and Turin.

UTICA, N. Y.—Bids are asked by the state superintendent of public works, Albany, N. Y., until May 16, for building a steel-lift bridge over the Erie Canal at Washington St.

ROCK STREAM, N. Y.—It is reported that two iron bridges are to be erected by the Northern Central R. R.

HULMEVILLE, PA.—The following bids have been received for repairing and building the Hulmeville bridge: Wrought Iron Bridge Co., $17,800; Pittsburg Bridge Co. (accepted), $16,890; Toledo Bridge Co., $18,150; Berlin Bridge Co., $17,500; New Jersey Steel & Iron Co., $17,280; Penn Bridge Co., $18,060; Canton Bridge Co., $17,675; King Bridge Co., $17,880.

PARSONS, PA.—Reports state that Tretheway Bros. have been awarded the contract to erect a foot-bridge across Laurel Run Creek.

PITTSBURG, PA.—Bids are asked by the County Controller until May 17 or the construction of 13 through plate-girder highway bridges from 27 to 64 ft., and for the construction of four stone arch bridges, from 12 to 22 ft. in length. Chas. Davis, County Engr.

CUMBERLAND, MD.—Bids are asked by the county clerk until June 6 for the construction of five bridges. D. P. Le Fevre, Engr., Cumberland, informs us that all bridges are designed by the county engineer; where there is sufficient headway vitrified brick will have the preference, but in all other places stiff riveted steel structures, when under 125 ft.

CUMBERLAND, MD.—Reports state that the proposition of renewing the Bowery St. bridge with a first-class steel structure is being considered by the Cumberland & Pennsylvania R. R. Co.

ATLANTA, GA.—According to reports the question of constructing a viaduct for Whitehall St. is being considered.

NEWPORT, KY.—Reports state that the committee on bridges has recommended that 14 new bridges be erected; the recommendation has been acted upon and six bridges will be ordered built at once.

HAMMOND, IND.—It is reported that a steel bridge will be placed over the river by the Chicago, Indianapolis & Louisville Ry. Co.

SAULT STE. MARIE, MICH.—According to reports, at a special election it was voted to issue $75,000 bridge bonds.

SEYMOUR, ILL.—Bids are asked until May 16 by the county commissioners for the construction of a 64 × 14-ft. highway bridge near Seymour.

FORT BENTON, MONT.—Reports state that the county authorities have chosen a new site for the rebuilt bridge over the Teton River; the bridge will be 214 ft. in length.

LA JUNTA, COLO.—F. T. Lewis, Town and County Surv., writes us that a bridge will soon be built at Swink Station; appropriation, $6,000.

LOS ANGELES, CAL.—F. H. Olmstead, Cy.Engr., writes us that the contract made Dec. 15, 1898, by the city with Sawyier & Arthur, for the construction of the Los Feliz, Arroyo Seco and North St. bridges has practically been declared forfeited, and May 15, when time of construction expires, will be readvertised and relet.

WATSONVILLE, CAL.—It is reported that the supervisors have ordered the construction of three bridges in Pajaro township. One will be at Wm. McGrath's, in Casserly district, one at Silva's and one at Burnet's.

HAILEY, IDAHO.—Bids are asked by the county commissioners until May 22 for the construction of a bridge across Wood River.

JAPAN.—Reports state that the Phoenix Bridge Works, of Phoenixville, Pa., has contracted with the Japanese government to build a large steel bridge for the Imperial Railroad of Japan.

MANDALAY, INDIA.—Reports state that the Pennsylvania Steel Co., of Steelton, Pa., has received a contract for a $700,000 bridge, to be constructed in India over the Gokteik Gorge, to be 2,260 ft. long.

BUILDINGS.

FAIRFIELD, ME.—We are informed that the members of Fairfield Lodge, I. O. O. F., have voted to erect a new brick store, office and lodge building, to cost $10,000.

MONTPELIER, VT.—We are informed that plans are being prepared for the Langdon Estate for the erection of two large buildings. Parish & Schroeder, Archs., 1 Madison Ave., New York.

NORTHAMPTON, MASS.—Bids are being received by the city property committee for erecting an addition to the Florence school building, after plans by Gardner, Pyne & Gardner, 33 Lyman St., Springfield, Mass.

ALBANY, N. Y.—The following bids were received by the city board of contract, May 1, from local contractors, for erecting a public bath house after plans by Egerton Swartwout, New York; the appropriation for the work is $21,000: Denniston & Dyer, $45,796; Feeney & Sheehan, $46,035; Cassidy & Gallagher, $46,684; Collins Bros., $48,465; John J. Kelly, $49,391.

BROOKLYN, N. Y.—The following bids were received by the department of education, New York, May 8 for additions to public school 63, Brooklyn: Wm. P. McGarry, Brooklyn, $33,487; Jas. D. Murphy, New York, $37,270; Jas. J. Newman, Brooklyn, $39,440; John Thatcher, Brooklyn, $39,900; Mapes-Reeves Construction Co., New York, $41,000. Bids for additions to public school 70, Brooklyn, were as follows: Mapes-Reeves Construction Co., New York, $44,800; Jas. D. Murphy, New York, $46,875; John Thatcher, Brooklyn, $47,000; P. Cleary, Brooklyn, $47,00; Thos. B. Rutan, Brooklyn, $47,220; Keany & Henningham, Brooklyn, $47,767.

BUFFALO, N. Y.—Plans have been prepared for an extension to the Erie R. R. Co.'s freight house at Louisiana and Exchange Sts., calling for stone foundation, brick work, steel shutters, etc.——A new brick and stone church building will be soon erected for the First Baptist Church at North Pearl and North Sts.; estimated cost, $50,000. R. A. Wallace, Arch., D. S. Moyan Bldg.——Bids will soon be asked for erecting a large storehouse for the American Malting Co. at William St. and Castor Alley, requiring stone foundation, heavy mill work, tin roof, etc. Geo. J. Metzger, Arch., 19 West Huron St.——The Manufacturers' & Traders' Bank is to erect a new building on Main St., with complete tanking outfit, grill work, safes, etc.; estimated cost, $150,000. Green & Wicks, Archs., 110 Franklin St.

FORT WADSWORTH (S. I.), N. Y.—Bids are asked by the quartermaster until May 31 for the construction of a bakehouse and ovens at Fort Wadsworth (Rosebank, N. Y., P. O.).

JAMESTOWN, N. Y.—Bids are asked until May 15 for constructing additions to three school buildings in this city. F. A. Fuller, Jr., Pres. Bd. of Education; Aaron Hall, Arch., Prendegast Block.

KINGSTON, N. Y.—Bids are asked until May 17 for erecting a new jail building for Ulster county. Everett Fowler, Clk.

NEW YORK, N. Y.—Plans have been filed by the Fireproof Apartment Co., 35 Nassau St., for a 9-story brick flat building on 81st St., near Broadway, to cost $150,000. Lamb & Rich, Archs., 35 Nassau St.; John Langley, Builder; by Patrick H. Lynch, Owner and Arch., 113 Convent Ave., for a 7-story brick flat building at Hamilton place and 141st St., to cost $75,000; by Ida E. Moore, 221 West 111th St., for a 6-story brick flat building on 111th St., near 7th Ave., to cost $100,000. C. A. Millner, Arch.; by Park & Tilford, 917 Broadway, for an 8-story brick warehouse at 152 to 158 West 36th St., to cost $100,000. Francis H. Kimball, Arch., 71 Broadway; by Isador Cohen, 773 East 153d St., for four 5-story brick flat buildings at St. Ann's Ave. and 157th St., to cost $107,000. R. Werner, Arch.; by J. H. Farley, 967 Boulevard, for four 4-story brick dwellings on 106th St., near Riverside Drive, to cost $110,000. Janes & Leo, Archs., 765 Boulevard; by August Jacob, 527 West 149th St., for six 5-story brick flat buildings on 113th St., near 3d Ave., to cost $138,000. John Hauser, Arch.; by Robert Hoe, 504 Grand St., for a 12-story brick and stone store building at 683 and 685 Broadway, to cost $200,000. W. W. Smith, Arch., 7 Wall St.; by Peter Wagner, 251 West 106th St., for an 8-story brick flat building on Broadway, near 55th St., to cost $250,000. Henry Anderson, Arch., 1180 Broadway; by Harry Chaffee, for a 10-story brick business building, with stores, at 16th St. and 5th Ave., cost $450,000. R. S. Townsend, Arch., 29 E. 19th St.

NEW YORK, N. Y.—The 6-story building at 358 and 360 Broome St., occupied by Levi Abrahams, furniture, was destroyed by fire, May 8, causing a reported loss of $80,000.——The following bids were received by the department of charities, foot of East 26th St., May 8, for erecting a pavilion to be known as "Pavilion F," on Randall's Island: Scheidecker & Gonder, 556 West 170th St., $57,694; McQuaide & Mahoney, $64,262; P. K. Lantry, 206 East 50th St., $69,327.

TOMPKINSVILLE (S. I.), N. Y.—Bids are asked until May 25 for the erection of West Bank light station, also for furnishing and delivering metal work for the same, as stated in our advertising columns. Lieut.-Col. D. P. Heap, U. S. Engr., Tompkinsville.

DOVER, N. J.—It is announced that a new church building with a seating capacity of 600 people will be erected at this place for the Dover Presbyterian Church; estimated cost, $115,000. Hudson Hoagland, of Dover, is the donor.

FORT HANCOCK, N. J.—The following bids are reported to have been received, May 1, for constructing an ordnance storehouse and lavatory at Fort Hancock: Capt. G. G. Bailey, Army Bldg, New York: L. L. Leach & Son, Chicago, $4,600; John Barlow, Trenton, N. J., $4,427; H. Probst, New York, $5,018.

JERSEY CITY, N. J.—Norcross Bros., 160 5th Ave., New York, are reported to have been awarded the contract for the construction of the new public library building in this city, at $208,191, work to be completed by April 1, 1900.

MORRIS PLAINS, N. J.—Bids are asked until May 18 for constructing a tunnel or subway at the state hospital at Morris Plains, etc. Geo. W. Howell, Engr., Iron Bank Bldg., Morristown, N. J.

VINELAND, N. J.—Bids are asked by the managers of the New Jersey Home for Disabled Soldiers until May 15 for alterations and additions to the present building at Vineland. E. C. Stahl, Secy., 35 East Front St., Trenton, N. J.; Thomas Stephen, Arch., Camden, N. J.

CHESTER, PA.—It is reported that ex-Mayor Black contemplates the erection of a new opera house at 6th and Market Sts., to cost $100,000.

COLUMBIA, PA.—The Columbia Public Ground Co., Columbia, is reported to have contracted with the local school board for the erection of a 3-story brick high school building.

ERIE, PA.—Bids are asked by the fire commissioners until May 26 for the erection of an engine house at 23d and Ash Sts; appropriation, $10,000. C. A. Gaither, Secy.

NORRISTOWN, PA.—Bids are asked until May 17 for the completion of the new high school building.

NORTH BRADDOCK, PA.—Jos. H. Rankin has been awarded the contract for erecting a town hall for this borough, at $11,496.

PHILADELPHIA, PA.—Bids are being received, according to reports, for the erection of a new brick, stone and iron office and store building at 1228 Market St., for Wm. R. Warner & Co. Chas. W. Bolton & Co., Archs., Witherspoon Bldg.——Revised plans are being completed, according to reports, for an 8-story apartment building to be erected at 36th and Chestnut Sts., to cost about $175,000. Milligan & Weber, Archs.——Plans have been filed by J. D. Lengal for a new church building, 60 × 102 ft., for the Memorial Church of St. Paul, at Lancaster and Overbrook Aves., cost $30,000. F. M. Mann, Arch.

PITTSBURG, PA.—Bids are asked until May 13 for alterations and additions to engine house No. 12, on Carson St. J. O. Brown, Director Dept. Pub. Safety.

BALTIMORE, MD.—Reports state that the Pennsylvania R. R. Co. has awarded the contract to the Structural Iron Co., of this city for the erection of a new fireproof warehouse, 360 × 70 ft., on Front St., from Constitution to Monument Sts. Work is to be completed by Sept. 1.

WASHINGTON, D. C.—Plans have been prepared for a 7-story apartment building to be erected for F. H. Duehay at L and 16th Sts., at a cost of $150,000. T. F. Schneider, Arch.

PARKERSBURG, W. VA.—The county court of Wood county has selected plans of L. W. Thomas, Canton, O., for a new court house to cost about $100,000.

CHARLOTTE, N. C.—Bids are asked until May 15 for erecting a new $20,000 school building for this city. Frank P. Milburn, Arch.

EDENTON, N. C.—Bids are asked until May 20 for the construction of a hatchery for the U. S. fish commission near Edenton. Geo. M. Bowers, Comr., Washington, D. C.

GREENVILLE, N. C.—A fire in this city May 4 destroyed the opera house and adjacent buildings; reported loss, $100,000; insurance, about $40,000.

ATLANTA, GA.—A. J. Bryan & Co. have prepared plans for a 10-story brick and steel apartment building, 60 × 135 ft., to be erected on Peachtree St., between North and Linden Aves., for Wm. B. Lowe; reported cost, $200,000.

MARIETTA, GA.—Bids are asked until June 22 for remodeling the present court house for Cobb county, also for erecting an annex 61 × 55 ft. J. M. Stone, Ordinary; Golucke & Stewart, Archs., 24½ Whitehall St., Atlanta, Ga.

NEW ORLEANS, LA.—Plans and specifications are asked until May 29 for a police jail building, to cost about $30,000. W. S. Douglass, Comptroller.

MEMPHIS, TENN.—The council has decided to erect a new police station, to cost $50,000.

COVINGTON, KY.—Bids are asked until May 15 for the wrecking of the present court house and city hall, and for the erection of a new city hall building. Theo. Von Hoene, Cy. Clk.

TOLEDO, O.—Bids are asked until May 29 for erecting a 12-room school building at Waite Ave. and Hicks St. Franklin Hubbard, Clk. Bd. of Education; Wachter, Hudson & Co., Archs., 701 Nasby Bldg.

DETROIT, MICH.—Bids are asked by the supervising architect, Washington, D.C., until June 7, for the changes, alterations and repairs to the old U. S. building at Detroit, as stated in our advertising columns.

CHICAGO, ILL.—Bids are asked by Col. J. G. C. Lee, Chief Quartermaster, Pullman Building, until May 26, for furnishing f. o. b. cars at Chicago, St. Louis or San Francisco, steel I-beams, larimer columns, plate girders and roof trusses.——Plans have been prepared by A. Sandegren for an apartment building, 100 × 115 ft., to be erected on 47th St., near Kenwood Ave., for Frank Gustafson, to cost $45,000.——William Blair has been granted a permit to erect a 7-story brick warehouse at 430 to 434 Wabash Ave., to cost $125,000.

DANVILLE, ILL.—Wm. C. Gunnell, Engr., Danville, informs us that the following bids were received April 29 for erecting three officers' residences at the National Soldiers' Home: L. M. Moore & Son, Danville, $27,395; L. P. Hazen & Co., Cincinnati, O., $23,835; Ed. S. Moore, Kokomo, Ind., $24,797; M. Yeager & Son, Danville, $21,224. Bids for heating were as follows: Prox & Brinkman Mfg. Co., Terre Haute, Ind., $3,670; L. J. Mueller Furnace Co., Milwaukee, Wis., $2,836; R. W. Kyle, Wheeling, W. Va., $3,318; Pittsburg Heating Supply Co., Pittsburg, Pa., $5,200. Bids for plumbing were as follows: Prox & Brinkham Mfg. Co., Terre Haute, Ind., $3,400; R. W. Kyle, Wheeling, W. Va., $3,270. Bids for electric lighting apparatus: McFell Electric Co., Chicago, Ill., $1,095; C. E. Wheelock & Co., Peoria, Ill., $948; Arthur Frantzen Co., Chicago, Ill., $944; Advance Electric Co., Indianapolis Ind., $1,312. Bids for water piping for fire service: R. W. Kyle, Wheeling, W. Va., $100.

DARTFORD, WIS.—Bids are asked until May 31 for the heating and plumbing of the new county court house and jail at Dartford. Geo. N. Clark, county Treas.; William Waters, Arch., Oshkosh, Wis.

STEVENS' POINT, WIS.—Bids are asked by the board of regents of normal schools of Wisconsin, until May 15, for the remodeling, heating and plumbing of the addition to the state normal school at this place. J. O. Davidson, Treas.; Allan D. Conover, Arch., Madison, Wis.

EAGLE GROVE, IA.—Bids are asked until May 22 for erecting a 2-story brick building, 50 × 100 ft., for the Masonic Building Association; bond, $1,000. D. C. Filkins, Pres.

DULUTH, MINN.—Plans are being prepared for a new building for the Duluth Normal School, to cost $75,000. Palmer, Hall & Hunt, Archs.

GLENWOOD, MINN.—Bids are asked until May 22 for erecting an 8-room brick school building at Glenwood. C. L. Peterson, Secy. Bd. of Education; C. S. Sedgwick, Arch., Lumber Exchange, Minneapolis, Minn.

AUBURN, NEB.—An election will be held in Nemaha county, May 24, to vote on the proposition of issuing $40,000 in bonds for a new court house.

LOCKHART, TEX.—Bids are asked until May 15 for erecting a public library building in this town. J. G. Burleson, Chn. Com.

SAN FRANCISCO, CAL.—Mahoney Bros. have been awarded the contract for making alterations and additions to the Mark Hopkins Institute of Art, at California, Powell, Pine and Mason Sts., at $24,133.

SAN JOSE, CAL.—W. T. Veitch, Oakland, Cal., has been awarded the contract for erecting a new 4-story brick addition to Hotel James, at $58,470.

CAYUGA, ONT.—Bids are asked until May 20 for installing a heating, water and closet system at the court house and goal. Address C. W. Colter, County Clk.

VANCOUVER, B. C.—Bids are asked by the department of public works, Ottawa, Ont., until May 30, for the erection of a drill hall at Vancouver. Wm. Henderson, Clk. of Works, Victoria, B. C.

MEDICINE HAT, N. W. TER.—Bids are asked by the department of public works, Ottawa, Ont., until May 29, for constructing a court house and outbuilding at Medicine Hat, Assa West. D. Smith, Clk of Works, Winnipeg, Man.

RAUCEBY, ENGLAND.—The following bids have been received, according to reports, for erecting a new county asylum at Rauceby, near Sleaford: Shillitoe, £120,400; Parnell, £116,334; Wilcox, £115,225; Fish & Son, £112,000; W. Pallinson, £108,000; Hockley, £106,478; Kirk, Knight & Co., Sleaford (recommended for acceptance), £106,39?; ($531,965); How, £106,346; Moss, £104,717; Rudd, £100,280; Hodson, £99,900.

WATER-WORKS.

LEWISTON, ME.—Wm. D. Pennell, Chn. Com., writes us that E. H. Gowing, 95 Milk St., Boston, is making surveys and preparing estimates for a water supply from Lake Auburn. The present supply is secured from the Androscoggin River.

ESSEX JUNCTION, VT.—The committee has been directed to procure estimates and plans for works. S. A. Brownell, J. S. Reynold and F. H. Parker are on the committee.

BOSTON, MASS.—Bids are asked until 12 noon, May 11, for furnishing 60 tons of best quality soft pig lead, 39 tons of lead pipe, as following: 30 tons ⅝-in., 2½ lbs. a ft.; 2 tons ¾-in., 4 lbs. a ft.; 3 tons 1-in., 6 lbs. a ft.; 4 tons 1½-in., 10 lbs. a ft. Each size of pipe to be of uniform diameter, weight and thickness, without joints and made from new material. The ⅝-in. and the ¾-in. pipe to be on reels, pipe on each reel to weigh not less than 500 nor more than 600 lbs. The 1-in. and the 1½-in. pipe to be in coils, each coil to weigh not less than 250 nor more than 300 lbs. J. R. Murphy, Water Comr.

BATAVIA, N. Y.—The question of securing a new water supply is being considered.

COPENHAGEN, N. Y.—S. S. Snell, Lowville, N. Y., is making surveys and estimates for works.

DEXTER, N. Y.—A. R. Shannon writes us that it is very probable that no works will be built this summer. No vote has yet been taken on the question.

ELMIRA, N. Y.—J. B. Cahoon, Gen. Mgr. Elmira Water-Wks. Co., writes us that preliminary estimates for a new 10,000,000-gallon pump have been submitted to the board of directors, but no action as yet has been taken.

NYACK, N. Y.—G. N. Houston, Engr. and Supt. Water Comrs., writes us that this place voted May 1 to issue $35,000 in bonds for completing the works.

OTEGO, N. Y.—It is stated that the Otego Water Co. will improve its works.

ROME, N. Y.—The board of water and sewer commissioners has been asked to lay about 4,500 ft. of mains.

SARATOGA SPRINGS, N. Y.—Harvey M. Geer has submitted a report and estimates for a new water supply and a stand-pipe to cost about $14,000. President McCreedy, of the Bd. Trustees, may be addressed.

SYRACUSE, N. Y.—The water board has asked for $60,000 for making extension to the mains, etc.

JERSEY CITY, N. J.—Bids are asked until May 16 for furnishing about 20,000 lbs. pig lead. Jno. Sullivan, Chn.

WESTFIELD, N. J.—J. T. Pierson writes us that no definite steps have yet been taken towards securing a better water supply and an electric plant.

JERSEY CITY, N. J.—The Jersey City Water Supply Co. has been incorporated to build the proposed new works for this city, the contract having originally been let to Patrick H. Flynn, Brooklyn. Capital stock, $1,000,000.

HAMMONTON, N. J.—The Hammonton Water Co. has been granted a franchise. Sam'l E. Brown writes us that nothing further has yet been done. Capital stock, $75,000.

MORRIS PLAINS, N. J.—Bids are asked until May 18 for building a water-tight lining into the new reservoir at the state hospital. G. W. Howell, Engr., Iron Bank Bldg., Morristown, N. J.

NEW BRUNSWICK, N. J.—The water commissioners have appropriated $30,000 for a new engine and boiler for the works, according to reports.

CALIFORNIA, PA.—The California Water Co. has been incorporated, with a capital stock of $1,000, of which $100 is paid in; incorporators, K. S. Savage, C. N. Savage and H. D. Savage, California.

DOYLESTOWN, PA.—Bids are asked until 6 p. m., May 11, for drilling and casing two or more 8-in. wells, 100 ft. deep. J. H. Wilson, Chn. Com.

EPHRATA, PA.—The Ephrata Water Co. will soon begin the construction of another reservoir of about 300,000 gallons capacity.

INDIANA, PA.—It is stated that the Clymer Water Co. will soon begin the construction of an extension to its works to cost about $15,000.

LANCASTER, PA.—The council is again considering the question of asking for bids for a new stand-pipe to cost about $25,000. Councilman Din n may be addressed.

McCONNELLSBURG, PA.—The council is reported to have asked for bids for building works.

PITTSBURG, PA.—The Monongahela Water Co. proposes to extend the works in the south side. M. W. Watson, Pres.

PHILADELPHIA, PA.—Councils have passed an ordinance appropriating $25,000 for the employment of experts to report on the matter of improving the water supply. Mayor Ashbridge has engaged Jos. M. Wilson, Drexel Bldg., Philadelphia; Rudolph Hering, 100 William St., New York; and Samuel M. Gray, Providence, R. I., to make recommendations regarding the improvement of the water supply. It is also proposed to appropriate $250,000 for repairing the pumps at the Roxborough station. Henry R. Worthington, Liberty St., New York, has been awarded the contract for two 5,000,000 gallon pumps for the Roxborough station.

PHOENIXVILLE, PA.—The council has voted to build a filter basin of about 6,000,000 gallons capacity. It is stated that plans will be prepared at once.

TAKOMA PARK, MD.—Geo. A. Warren, Town Clk., writes us that the matter of resubmitting the question of issuing bonds for works is being considered. Nothing definite has yet been done, and it is doubtful if anything definite will be done this year.

LAUREL, DEL.—Chas. S. York, Engr., 1526 East Biddle St., Baltimore, Md., informs us that the following bids were received May 3 for furnishing the materials and for constructing the works and a sewerage system:

E. F. Kitson, Pottsville, Pa. (accepted)	$17,605
Wm. H. Rothrock, Baltimore, Md.	18,026
E. H. Post, Wilkes-Barre, Pa.	17,814
Van D. Hite Smith, Pocomoke City, Md.	17,644
R. W. Brown	18,900
Sweeten & Sons, Camden, N. J.	18,512
Humphy & Rowe, Ashland, Pa.	18,513
B. R. Burns, Philadelphia	18,236
Fred. Spalding, Bethlehem, Pa.	17,618

SANFORD, N. C.—This place voted May 1 to issue $10,000 of 30-year 6% bonds for works, and bids for the purchase of the bonds are asked until May 18. Bids are also wanted for furnishing and installing a steel or iron tank, 24 × 20 ft., a 12-column steel or iron tower 100 ft. high, 110 pieces of 8-in. water pipe, 334 pieces of 5-in. pipe, specials, 12 to 18 4-in. fire hydrants, valves, pipe, etc. W. J. Edwards, Mayor.

HARTSVILLE, S. C.—The Hartsville Electric & Water Co. has been incorporated by Maj. J. L. Coker, J. J. Lawton and J. L. Coker, Jr.

GAFFNEY CITY, S. C.—Bids are asked until May 24 for constructing works to cost about $18,000. Frederick Minshall, Engr., Pocomoke City, Md.: A. N. Wood, Chn.

SPARTANBURG, S. C.—The Home Water Supply Co. has been incorporated with a capital stock of $50,000 by J. H. Montgomery, R. K. Carson and D. E. Converse.

MONTGOMERY, ALA.—Bids will probably soon be asked for an airlift and boilers for the water-works. Geo. A. Ellis, Consult. Engr.

INDIANOLA, MISS.—Bids are asked by the Supervisors of Sunflower county until June 5 for sinking an artesian well in the court house yard, according to reports.

RICKWOOD, TENN.—We are informed that this place is making preparations to put in works. Address W. E. McElwee.

BARDWELL, KY.—The question of building works is reported as being considered.

HIGHLANDS, KY.—Bids are asked until May 18 for the privilege of laying water mains in the streets of Highlands. The question of building complete works is reported as being considered. Wm. H. Band, Secy. District of the Highlands, Campbell county, Ky.

COLLEGE HILL, O.—The following submitted the lowest bids May 1 for constructing works: A. L. Tosso, laying pipe and receiving basins; John Gibbons, power house; Bourbon Copper & Brass Works, hydrants; Chicago Bridge & Iron Works, stand-pipe; Laidlaw-Dunn-Gordon Co., pumps. Forty thousand dollars worth of bonds were sold to the German National Bank at a premium of $9,908.

LISBON, O.—A. A. Ramsey, Secy. Water Trustees, writes us that the proposition to issue bonds for improving the works at a cost of about $12,000 was defeated.

TOLEDO, O.—The water board has been petitioned to extend water mains in a number of streets.

WADSWORTH, O.—This place has voted against issuing $20,500 in bonds for works.

MICHIGAN CITY, IND.—M. T. Krueger, Secy. and Gen. Mgr. Michigan City Water-Works Co., writes us that the contracts will be let about June 1 for a mile of 16-in. force main and about 300 ft. of 16-in. pipe with flexible joints. The contracts for a 3,000,000-gallon pump and 35,000 ft. of 30-in. intake pipe will probably be let about June 15. The water supply will be taken from Lake Michigan.

NEW ALBANY, IND.—The council is reported to have voted against the proposition to purchase the works of the New Home Crystal Water-Works Co.

EAST JORDAN, MICH.—This place is reported to have voted to issue $7,000 in bonds for works.

SAULT STE. MARIE, MICH.—Local papers state that the pumping plant of the works will have to be enlarged and repaired.

WAYNE, MICH.—It is proposed to secure a new water supply by building a reservoir on the Rouge Flats.

ALTON, ILL.—The chairman of the water-works committee writes us that plans for new works, to cost $200,000, have been submitted by the Seckner Contracting Co., the Rookery, Chicago. The works would include a pumping station, four settling basins, reservoirs, about 20 miles of pipe, etc. The water supply will be secured from the Mississippi River. The matter is now in the hands of the committee, and a citizens' commission will soon be added. The franchise of the New England Water-Works Co. expires in 1900. It is possible that the city may purchase the works of the company.

CHICAGO, ILL.—Bids are asked until May 18 for a steel discharge pipe in the north pumping station and for pumping out a clay hole 249 × 210 ft. and 20 ft. deep. L. E. McGann, Comr. Pub. Wks.

CHICAGO, ILL.—Bids are asked until May 16 for furnishing six horizontal return tubular boilers, fitted with automatic stokers and coal-conveying machinery, storage bins, etc., for the Chicago Ave. pumping station. L. E. McGann, Comr. Pub. Wks.

GALESVILLE, WIS.—B. W. Davis, Mayor, writes us that a contract for building works, to cost about $14,000, was to be let May 3. Geo. Hueston, Engr., Winona, Minn.

HARTFORD, WIS.—An election will soon be held to vote on the question of building works, to cost about $7,000.

HUDSON, IA.—R. J. Nestor, Mayor, writes us that the council will take steps this month looking towards issuing bonds for works. Population, 500.

NORA SPRINGS, IA.—Bids are asked until May 25 for the purchase of $6,540 of 5% and 4% water-works bonds. C. F. Miller, Recdr.; S. G. Blythe, Mayor.

THOMPSON, IA.—Bids are asked until May 15 for furnishing the materials and for erecting a 1,500-barrel wooden tank, 1,000 ft. of 6-in. cast-iron water pipe, four hydrants, two valves, 1,000 ft. of hose, an 80-ft. steel tower for tank, etc. Population, 658.

UTE, IA.—O. E. Lathrop, Town Clk., writes us that the following bids were received May 1 for constructing works: John Ward, Audubon, $3,500; W. D. Lovell, Des Moines, $3,877; Fairbanks, Morse & Co., Omaha, Neb., $5,959.

BELGRADE, MINN.—F. W. Lenz, Recdr., writes us that the following bids were received May 5 for furnishing plans and specifications for works and an electric plant, as advertised in Engineering News: W. I. Gray & Co., Minneapolis, $120; Field & Everett, New York, 4½% of cost of plant; B. E. Parks, Detroit, Mich., 3%; Sturtevant & Todd, Chicago, Ill., 1%, indefinite. All bids were rejected and new bids asked until May 12. Ten-year 5% semi-annual gold bonds were voted May 5 and will be sold June 3.

MINNEAPOLIS, MINN.—A new water supply is to be furnished the Soldiers' Home, the legislature having appropriated $3,000 for the works. S. H. Taylor and Dr. O. S. Pine are on the board.

PINE ISLAND, MINN.—Bids are asked until about May 18 for furnishing the materials and for constructing works. J. E. Clark, Village Recdr., informs us that the works will require 120 tons of cast-iron pipe, 3 tons of specials, 12 hydrants, 6 gates, an 18-HP. gasoline engine, a triplex pump of 15,000 gallons an hour, a storage reservoir of 60,000 gallons, a suction well 40 ft. deep, etc. A. M. Palitz, Engr., 1101 Pabst Bldg., Milwaukee, Wis.

ST. PAUL, MINN.—The park board proposes to build works for Como Park. There will be wanted 5,380 ft. of 4-in., 2,600 ft. of 2-in. and 2,700 ft. of 1-in. water pipe, a water tower 45 ft. high, with a capacity of 35,000 gallons, etc.

STARBUCK, MINN.—B. H. Holte, Recdr., writes us that an election to vote on the question of issuing bonds for works and on the electric plant was called for May 8.

MILNOR, N. DAK.—Bids will be asked about Aug. 1 for constructing works, according to reports.

RED LODGE, MONT.—This place voted May 1 to issue $25,000 in bonds for works.

SHERIDAN, MONT.—The Sheridan Water-Works Co. has been incorporated with a capital stock of $5,000 by H. D. Rossiter, S. C. Ogden and Chas. Walter.

MARLIN, TEX.—J. M. Kennedy, Mayor, it is reported, wants to grant a franchise for works for this place.

PORT ARTHUR, TEX.—Edward Wagner, of Berlin, Germany, and of Port Arthur, is reported to have been granted a 25-year franchise for works. The work will be done by the International Trading Co., of this place.

DENVER, COLO.—The Denver Union Water Co. has been granted a franchise to extend its pipe system into the county.

SEATTLE, WASH.—Frank Oleson, Secy. Bd. Pub. Wks., informs us that the following contracts were let for constructing subdivisions of the Cedar River water-works addition: Subdivision No. 1.—Pacific Bridge Co., Portland, Ore.—Head works, $78,272; pressure pipe, $774,400; concrete between reservoirs, $10,894; waste pipe, $4,783; changing of river channel, $21,063; improving Swan Lake, $21,566; total, $911,007. Subdivision No. 2.—Smyth, Wakefield & David, Portland, Ore.—High-service reservoir, $106,846; low-service reservoir, $106,564; total, $213,409. Subdivision No. 3.—Smyth, Wakefield & David, Portland, stand-pipe, $20,686; force main, $30,795; also Subdivision No. 4, $28,015. It is probable that the itemized bids of successful bidders will be given later.

PASADENA, CAL.—T. D. Allin, Engr. Pasadena Lake Vineyard Land & Water Co., writes us that this company has commenced the sinking of a well 1,000 ft. from Reservoir No. 1. Water will be struck at a depth of about 150 ft. Reservoir 30 ft. higher than well. It is expected to put in plant and pump 100 miners' inches. The company is considering both steam and electric power.

RIVERSIDE, CAL.—The question of building a reservoir to save the winter water now running to waste from the San Jacinto Mountains, to cost about $40,000, is being considered.

SAN DIEGO, CAL.—The San Diego Land & Town Co., it is reported, proposes to sink additional wells, at a cost of about $10,000.

GLOBE, ARIZ.—Chas. F. Martin and R. C. Brown have been granted a franchise for works. The water supply will be secured from a spring in the Pinal Mountains, eight miles distant.

MONTREAL, QUE.—Bids are asked until May 16 for furnishing cast-iron water pipe, special castings, lead pipes, brass castings, pig lead, etc., for the water-works. Geo. Janin, Acting Supt. Water-Wks.

FRASERVILLE, ONT.—Bids were asked until May 10 by E. Rodier, of the Fraserville Water-Works & Sewerage Co., 180 St. James St., Room 10, Montreal, Que., for building the proposed improvements.

SMITH'S FALLS, ONT.—Alex. Farrell, Mayor, writes us that Willis Chipman, Toronto, Ont., has been engaged to prepare plans for works and a sewerage system. No contracts, if any, will be let for several months.

WINNIPEG, MAN.—Bids are asked until June 5 for constructing a water-works softening plant. C. J. Brown, Cy. Clk.; H. N. Ruttan, Cy. Engr.

SEWERAGE.

CAMBRIDGE, MASS.—The matter of engaging a consulting engineer to go over the plans for the new sewers, to cost about $400,000, prepared by S. M. Hastings, Cy. Engr., is being considered by the council. Wm. F. Brooks, Pres. Council.

HAVERHILL, MASS.—We are informed that plans for a system in Wards 4 and 6, to cost about $120,000, have been prepared and submitted to the state board of health for approval. Robt. R. Evans, Cy. Engr.

HYDE PARK, MASS.—P. H. Rooney, of Hyde Park, has been awarded the contract for constructing 6,000 ft. of pipe sewers, at $9,325.

LEXINGTON, MASS.—This place has voted to have the act authorizing this city to build a system amended.

NORTH ADAMS, MASS.—Bids are asked until May 13 for furnishing sewer pipe during the season of 1900 and also for laying concrete sidewalks. J. L. Tenbrie, Comr.

MANCHESTER, CONN.—Cheney Bros. will begin the construction of a sewage disposal plant this spring according to reports. Plans are said to have been prepared about five years ago.

OLNEYVILLE, R. I.—The commissioner of public works will soon begin the construction of 400 ft. 15-in. and 700 ft. of 40-in. brick storm sewers in Plainfield St.

WOONSOCKET, R. I.—The following bids were received May 4 for constructing section 4 of the trunk sewer: Bell & Co., Boston, $12,805 (accepted); Baker & Judson, Gloversville, N. Y., $13,770; George M. Bacon, Boston, $15,748; J. H. Leavitt, Boston, $16,740; Lyons & Doran, Providence, $17,908; Cumberland Construction Co., Valley Falls, $18,936; Frederick Shaw, Providence, $19,770; Frank L. Allen, Worcester, $25,580; John Brisson, Narragansett Pier, $27,596.

AUBURN, N. Y.—Bids have been asked by the council for a sewer in Wards 2, 7, 8 and 9.——The contract for building a sewer in Clark St. has been let to S. C. Adams & Son.

LITTLE FALLS, N. Y.—The following bids were received April 25 for constructing the East Main St. sewer: James McDonald, $8,102, for 24-in. pipe; $8,980, for 30-in. pipe; Thos. Kearney, $8,200 and $9,980; Belden & Seeley, $8,100 and $10,100; Hallinan Bros. & Fenton, $8,588 and $10,728.

NYACK, N. Y.—The state board of health has approved plans for a sewerage system for the village of South Nyack, as prepared by C. T. Barrett, of Staten Island.

PORT JERVIS, N. Y.—At the coming election this place will vote on the question of building an 18-in. surface water sewer, to cost about $4,000.

SYRACUSE, N. Y.—The West End Business Men's Association is urging the construction of a system in the 9th Ward.

WEST ORANGE, N. J.—At the meeting of the West Orange Township Committee, April 27, Alex. Potter, Engr., 137 Broadway, New York, Civil Engr., is said to have presented a revised apportionment of the cost of the sewer to tidewater, to be constructed jointly by a number of municipalities. Under this apportionment the cost to West Orange will be 17.23% of the whole, or $53,229. The total estimated cost of sewers for the township, including both the trunk line outlet and the laterals will be $111,169. This includes $23,460 for a trunk sewer through the township and $34,500 for ten miles of laterals.

CARNEGIE, PA.—J. D. White, Borough Engr., has been directed to prepare plans and specifications for a system to cost about $45,000. Councilmen Bigham and G. Z. Hosack may be addressed.

CHAMBERSBURG, PA.—Efforts are being made looking to the immediate construction of a system.

DARBY, PA.—We are informed that this borough will soon construct pipe sewers in 9th and Summit Sts. There is also talk of putting in a complete system. Harris & Damon, Engrs.

PITTSTON, PA.—Bids are asked until 8 p. m., May 11, for constructing sewers in certain streets. J. T. Flannery, Cy. Clk.

PROSPECT PARK, PA.—Bids are asked until May 13 for constructing pipe sewers in Prospect Park. G. W. Shirley, Chn. Com.; G. D. Howell, Engr., Anderson Bldg., Chester, Pa.

SHERIDAN, PA.—Bids are asked until May 13 for the construction of about 2,220 ft. of 10-in., 13,818 ft. of 12-in., 379 ft. of 15-in., and 375 ft. of 18-in. pipe sewer for this borough; also for about 8,891 cu. yds. of grading on several streets. James B. Smith, Borough Engr., 434 4th Ave., Pittsburg, Pa.

WILMINGTON, DEL.—T. Chalkley Hatton, Engr.-in-Charge of Sewers, is reported as preparing plans for sewers for the North Side.

ATLANTA, GA.—Bids are asked until May 16 for constructing a system at Tybee Island, Ga. John Simpson, Q.M., U.S.A., Atlanta.

WAYCROSS, GA.—A. M. Knight, Mayor, writes us that the bond election has failed but the city has decided to start the system by putting in principal sewers. It will borrow the money if interest is satisfactory. Waring, Chapman & Farquhar, Engrs., 874 Broadway, New York.

OXFORD, MISS.—The aldermen have passed a resolution providing for the appropriation of $20,000 for the establishment of a sewerage system in this city.

LOUISVILLE, KY.—The board of works has directed City Engineer Parsons to prepare plans for constructing the southeastern outfall sewer to be from 7 to 2½ ft. in diameter.

TOLEDO, O.—Efforts are being made to have the council pass the resolution authorizing the construction of the Ironville sewer, plans for which have been made.

ELKHART, IND.—Kinney & Swinehart have been awarded the contract for building main sewer, at about $16,000.

INDIANAPOLIS, IND.—Bids are asked until May 15 for constructing sewers in two streets. M. A. Downing, Pres.

LOGANSPORT, IND.—W. A. Osmer, Cy. Engr., writes us that the following bids were received May 1 for extending the sewers: Talbot & Co., Logansport, Ind., $89,155 (accepted); Munger & Bros., Dayton, O., $90,730; Roberts & Co., Pittsburg, Pa., $93,811; T. O'Brien, St. Louis, Mo., $96,691.

DELRAY, MICH.—A hearing will be given May 13 on the subject of constructing sewers. G. P. Moog, Clk.

HARBOR SPRINGS, MICH.—An engineer estimates that a system for this place will cost about $10,000.

SULLIVAN, ILL.—F. M. Waggoner, Cy. Clk., writes us that it is likely that the new administration will submit to the people the question of issuing bonds for sewers.

ST. PAUL, MINN.—The following bids were received by the board of public works May 1 for constructing the Hamline system: Kirkland & Deek, $46,700; P. Doherty, $47,973; Lindquist & Johnson, $50,980; P. J. Ryan, $53,000; Preston & Kreigher, $45,400.

SAUK CENTRE, MINN.—Bids are asked until May 15 for constructing a system, as advertised in Engineering News, March 30 and April 6. (Postponement from May 3.) J. F. Cooper, Cy. Clk.

JANESVILLE, WIS.—Bids are asked until May 15 for furnishing the city with 10, 12, 15 and 18-in. vitrified sewer pipe, lumber and cedar blocks for the year ending April 17, 1900. A. E. Badger, Cy. Clk.

MARSHFIELD, WIS.—The question of building a system is being considered.

ROSWELL, N. MEX.—E. L. Wildey writes us that the town will vote within 90 days on the question of issuing bonds for a system. J. C. Sheridan, Mayor.

SEATTLE, WASH.—The contract for building a sewer in East Columbia St. has been let to Stirrat & Goetz, at $1,490. J. A. Bailey has the contract for building the sewer in 20th, 21st and Terrace Sts., at $2,725.——City Engineer Thomson has completed plans for a new main sewer, to cost about $5,000.

SAN FRANCISCO, CAL.—The mayor's clerk writes us that a commission, composed of Carl E. Grunsky, 530 California St., and C. S. Tilton, Cy. and County Engr., San Francisco, and Marsden Manson, Dept. of Highways, Sacramento, Cal., has been appointed to report on a system by Oct. 15. An election will be held about Dec. 15 to vote on the question of issuing bonds.

SANTA MONICA, CAL.—Bids are asked until June 5 for furnishing the necessary materials, etc., for connecting the salt water tanks with sewer No. 1. J. C. Steele, Clk.

WATSONVILLE, CAL.—It is stated that an election will be held in June to vote on the question of issuing bonds for a system.

MONTREAL, QUE.—Bids are asked until May 15 for constructing a main sewer in St. Denis Ward to the sewage disposal farm in St. Laurent Parish. P. W. St. George, Cy. Engr.

NAMAIMO, B. C.—A report and estimates for a system and water-works have been made. S. Gouch, Cy. Clk.

SMITH'S FALLS, ONT.—Alex. Farrell, Mayor, writes us that Willis Chipman, Bay St., Toronto, Ont., has been engaged to prepare plans for a system and water-works. No contracts, if any, will be let for some months.

HONOLULU, H. I.—Bids are asked until June 1 for constructing sewers. Plans and specifications are at the Hawaiian Consulate, 206 Sansome St., San Francisco. Jas. A. King, Minister of the Interior, Honolulu.

GARBAGE DISPOSAL—STREET CLEANING

BRIDGEPORT, CONN.—The board of health has decided to locate the garbage crematory on Asylum St. Aldermen P. L. Johnson and J. M. Donnelly may be addressed.

NEW BRITAIN, CONN.—C. A. Anderson has been awarded the contract for collecting the garbage for the coming year at $1,400.

COHOES, N. Y.—The committee on garbage has decided to send circular letters to the clerks of about 100 cities in the United States, requesting information as to the disposal of the garbage, and, if cremated, as to what system of incineration used, the cost, capacity and the amount required for maintaining such plant per month. Mayor Mitchell and Aldermen Clarke and Tymerson may be addressed.

WELLSVILLE, N. Y.—A committee will soon be appointed by the council to consider jointly with the board of health the question of putting in a plant, according to reports.

HOBOKEN, N. J.—Bids are asked until June 14 for the removal of ashes, garbage, rubbish, street sweepings, etc., of the city. M. V. McDermott, Cy. Clk.

PETERSBURG, VA.—The street committee have been instructed by the city council to purchase three sprinkling carts and one street sweeper. Communications may be addressed to Wm. H. Talley, Chn. St. Com.

LOUISVILLE, KY.—Dr. R. W. Taylor, of the council; Dr. R. B. Gilbert, of the Board of Aldermen; Health Officer M. K. Allen, and Superintendent of Schools E. H. Mark are visiting the East to inspect incinerators used in various cities. Upon their return they will be ready to recommend the kind of an incinerator the city should purchase. The plant will cost about $60,000.

SPOKANE, WASH.—W. W. Potter, Health Officer, has recommended the construction of a plant.

STREETS AND ROADS

DOVER, N. H.—It is stated that W. C. Ogden has submitted plans for a new road from York Road to Mt. Agamenticus; the plans and specifications are ready for bids and work will be commenced soon.

MANCHESTER, MASS.—It is reported that the town has voted to appropriate $10,000 for the construction of a new road.

QUINCY, MASS.—Reports state that a meeting will be held to discuss the appropriation of $26,000 for the paving and repair of three streets.

WINCHESTER, MASS.—It is stated that the town has voted to expend $30,000 in street repairs.

TIVERTON, R. I.—The town has voted to appropriate $5,000 for the repair of highways and $5,000 for the use of the stone crusher, $3,000 of said sum to be used in the purchase of crushed stone and $2,000 for repairs.

STAMFORD, CONN.—Bids are asked until May 15 for about 3,657 yds. of asphalt paving. Paul Nash, Cy. Engr.

ALBANY, N. Y.—Bids are asked until May 15 for furnishing all materials and performing all work necessary for excavating, filling, curbing and paving with vitrified brick Lexington and New Scotland Aves. Thomas J. Lanahan, Cy. Clk.——The following contracts have been awarded: Paving Howard and William Sts., Mulderry Bros., $13,797; paving Orange St., T. Henry Dumary, $9,888; Second St., T. Henry Dummary, $8,840.

BINGHAMTON, N. Y.—Bids are asked ntil May 23 for paving in five streets, as stated in our advertising columns. S. D. Kane, Cy. Clk.

JAMESTOWN, N. Y.—It is reported that bids will soon be asked for brick paving from West Third St. to the boat landing bridge.

MOUNT VERNON, N. Y.—Reports state that a public hearing will be held on the bill adopted by the legislature providing for the issuance of bonds to the extent of $300,000 for street improvements.

NEW ROCHELLE, N. Y.—The council has adopted resolutions authorizing the issuance of $150,000 in street improvement bonds, according to reports.

ROCHESTER, N. Y.—It is reported that the following contracts for paving have been awarded: Thrush St., asphalt, to Whitmore, Rauber & Vicinus, $20,516; Stone St., Medina block, Whitmore, Rauber & Vicinus, $9,324; Emerson St., asphalt, Rochester Vulcanite Co., $5,920.

UTICA, N. Y.—It is stated that the following bids have been received for paving: Henry St., from State to Francis, Syracuse Improvement Co., $8,172; Warren-Scharf Asphalt Paving Co., $7,866 (accepted); Utica Paving Co., $8,006; Clinton Place, from Genesee to Kemble, Syracuse Improvement Co., $10,972; Warren-Scharf Co., $10,054 (accepted); Utica Paving Co., $10,776.

WHITE PLAINS, N. Y.—A petition for brick paving on Spring St., between Railroad and Hamilton Aves., has been favorably acted upon by the Village Board, and the engineer has been directed to prepare plans and specifications for the work.

BETHLEHEM, PA.—Reports state that the Bethlehem-Nazareth Road has been ordered rebuilt, and that the commissioners will soon ask for bids.

JERSEY CITY, N. J.—Bids are asked until May 16 for the excavating, filling, curbing, 2,186 sq. yds. of asphalt paving, etc., portion in Carlton Ave., and 1,800 yds. of macadam paving etc., in Cator Ave. G. T. Bouton, Clk.

ERIE, PA.—Bids are asked until May 15 for about 4,400 sq. yds. of asphalt paving. B. E. Briggs, Cy. Engr.

PHILADELPHIA, PA.—It is reported that appropriations amounting to $26,500 for street improvements have been favorably reported to the Finance Committee.

TURTLE CREEK, PA.—This place is about to vote on the question of issuing $45,000 street improvement bonds.

UNION CITY, PA.—Bids are asked until May 15 for the paving of Main St. with brick. J. E. Gillett, Cy. Clk.

DANVILLE, VA.—A special election is to be held on May 18 to vote on the question of issuing $100,000 street improvement bonds.

WILMINGTON, N. C.—W. P. Oldham informs us that the proposition to issue $50,000 of bonds for county road improvements has been defeated.

JACKSBORO, TENN.—A bill authorizing the issuance of $100,000 road bonds has passed the House of the State Legislature.

KNOXVILLE, TENN.—F. G. Phillips, Co. Engr., informs us that $10,000 will be expended in repairing the old pikes of Knox county; and $8,000 in building new ones. Part of the repair work has been let.

NEWPORT, KY.—The following bids have been received for paving on Sixth St.: Thomas Brown, $3,337; Jcseph Collopy, $3,106; Van Sandt & Meeds, $2,924; John Trapp, $2,801 (accepted).

PADUCAH, KY.—It is reported that an election will be held shortly to vote on the question of issuing $50,000 street improvement bonds. James H. Wilcox, Cy. Engr.

BUCYRUS, O.—We are informed that as soon as the roads designated to be piked have been mapped and profiled, the authorities will proceed to sell bonds and award contracts. Address G. H. Ferring, Secy.

CINCINNATI, O.—Bids are asked until June 2 for the improvement of Chase Ave. and Turrill, Cherry and Delaney Sts. Geo. H. Spellmire, Cy. Clk.——Bids are asked by the Board of County Commissioners until June 3 for crushed stone on Winton Road, between Gray Road and North Bend Road, Millcreek Township.

CHILLICOTHE, O.—Reports state that the council has ordered that streets be paved with brick this summer to the amount of over $100,000.

FINDLAY, O.—It is reported that the board of improvements has decided to recommend the pavement of Hancock St. as far as the west line of Washington Ave.

OROVILLE, O.—It is stated that Main St. will be paved, at a cost of $30,000.

SHELBY, O.—Bids are asked until June 2 for paving 38,000 sq. yds. with brick or asphalt, and until June 5 for $70,000 of bonds, as stated in our advertising columns. W. F. Sonnanstine, Cy. Clk.

TOLEDO, O.—It is reported that the contract for paving upper Broadway, from the end of the present pavement to the city line, has been awarded to H. P. Streicher, at $30,061.

YOUNGSTOWN, O.—Bids are asked by the city commissioners until May 19 for grading, draining and improving Himrod Ave., between Fruit and Oak Sts.

BOONVILLE, IND.—Reports state that it is proposed to construct 28 miles of macadam roads at a cost of $44,000.

RISINGSUN, IND.—Bids are asked until May 22 for macadamizing about 16 miles of road in Cass and Randolph townships. Robt. C. Nelson, Audr. Ohio County.

INDIANAPOLIS, IND.—Bids are asked by the board of public works until May 15 for the improvement of the sidewalks of five streets; and until May 17 for the grading, paving, etc., of 13 streets.

CHICAGO, ILL.—It is reported that C. Nutterstrom has been awarded the contract for paving La Salle Ave. with brick, at $4,122.——The city engineer has prepared plans for the improvement of eleven streets.

CHICAGO, ILL.—Bids are asked until May 17 for paving, curbing, guttering, etc., of a portion of Diversey Ave. Boulevard. P. Rodieske, Supt.Comrs., Lincoln Park.

MANITOWOC, WIS.—We are informed that brick paving is being considered.

WINONA, MINN.—The council has ordered the pavement of three streets with vitrified brick.

OMAHA, NEB.—Reports state that Councilman Mercer has introduced ordinances authorizing the issuance of the $50,000 paving and $50,000 sewer bonds voted at last fall's election.

SAN ANTONIO, TEX.—Bids are asked until May 20 for the construction of 14,457 sq. yds. of asphalt street pavement. W. W. Johnson, Cy. Clk.

DENVER, COLO.—Reports state that work has begun on a $25,000 paving plant by the Denver Paving Co., which has the contract for paving with asphalt the Fourteenth St. viaduct.

SALT LAKE CITY, UTAH.—It is reported that paving to cost $160,000 is being considered.

WINNIPEG, MAN.—C. J. Brown, Cy. Clk., informs us that the following bids for the supply and delivery of 330 tons of asphalt were received April 5: Sicily Asphaltum Co., Montreal, Que., $13,794; Warren Chemical Co., New York, N. Y., $11,896; California Asphaltum Co., Pittsburg, Pa., $13,332 (accepted). Owing to the difference in the wagons tendered upon no comparison can be made; the tender of D. S. Watson, Canastota, for the supply of six dump wagons, at $1,519, was accepted.

GAS PLANTS.

BUFFALO, N. Y.—The plans for the proposed municipal gas plant were filed May 1 with the Bureau of Buildings by the commissioners of public works. The plans were prepared by the Economical Gas Apparatus Co., of Toronto, Ont. They provide for a purifying house 300 ft. long, with 20 retorts in batteries of five each, two large storage tanks, each 160 ft. in diameter and a relief holder, 75 ft. in diameter, a steel stack 131 ft. high, office buildings, boiler houses, etc.

WILLIAMSPORT, PA.—It is reported that Christ Rubright has been awarded the contract for extending the mains of the gas company.

DANVILLE, ILL.—Bids are asked until May 26 for a 50-year gas franchise. Address Jno. L. Fate, 203 Chamber of Commerce Bldg., Chicago, Ill.

WILLIAMSPORT, IA.—We are informed that a contract has been awarded to A. W. Dawson & Co., of Mason City, for the erection of a 2,000-light gasoline gas plant, at $4,280.

MISCELLANEOUS CONTRACTS.

FLOATING DOCK.—Havana, Cuba.—Bids are asked by the Spanish government until May 31 for a large floating dock.

STREET SIGNS.—Des Moines, Ia.—Bids are asked by the board of public works until May 24 for furnishing 500 enameled iron street signs, not less than 24 × 4½ ins. in size.

PARKS.—Gloversville, N. Y.—Reports state that improvements will be made in Scandaga Park, to cost about $20,000.

PARK.—Louisville, Ky.—Reports state that the purchase of Central Park is being considered; probable cost, $206,000.

CEMENT.—Pittsburg, Pa.—Bids are asked until May 17 for furnishing about 3,000 bbls. of cement. W. E. Thompson, County Controller.

BONDS.—Bloomfield, N. J.—Bids are asked until May 15 for $75,000 4% street improvement bonds. Wm. L. Johnson, Town Clk.

DREDGING.—San Francisco, Cal.—Bids are asked until May 29, for dredging in Humboldt Bay. Maj. W. H. Heuer, U. S. Engr.

WHARF.—Burnt Church, N. B.—Bids are asked until May 23 for the construction of a public wharf. E. F. E. Roy, Secy., Dept. Pub. Wks.

TELEPHONES.—Akron, O.—The Nutt Christy Co. has been granted a franchise for a new telephone company in this city; capital stock, $150,000.

ANCHORS.—Washington, D. C.—Bids are asked until May 31 to furnish nine navy type anchors. Edwin Stewart, paymaster-general U. S. Navy.

DREDGING.—Alloway Creek, N. J.—Bids are asked until June 8 for dredging in Alloway Creek. Lieut.-Col. C. W. Raymond, U. S. Engr., Philadelphia, Pa.

DREDGING.—San Francisco, Cal.—Reports state that the contract awarded to O. P. Johnson for dredging Merritt Lake has been declared null and void.

DRAINAGE SYSTEM.—Franklin, La.—An election will be held June 3 to decide the issuance of $30,000 of bonds for the construction of a drainage system.

DREDGING.—Rancocas River, N. J.—Bids are asked until June 8 for dredging in Rancocas River. Lieut.-Col. C. W. Raymond, U. S. Engr., Philadelphia, Pa.

TELEPHONE SYSTEM.—Anderson, Ind.—It is reported that the new telephone company is about to commence the work of construction. Geo. W. Beers, Pres.

TELEPHONES.—Jersey City, N. J.—It is reported that the Hudson Telephone Co. has obtained a franchise to extend its lines through all the leading thoroughfares.

DOCKS.—Buffalo, N. Y.—Reports state that the Board of Aldermen has adopted resolutions to put in navigable condition the waters at the foot of Porter St.

AUTOMOBILE HOSE CART.—Atlantic City, N. J.—It is reported that a committee has been appointed by the Atlantic Fire Co. to purchase an automobile hose cart.

BRICK, CEMENT, ETC.—Jersey City, N. J.—Bids are asked until May 16, for furnishing about 13,000 brick, sand, gravel, etc. G. T. Bouton, Clk. Bd. St. Comrs.

DREDGING.—New Bedford, Mass.—Bids are asked until June 8 for dredging in New Bedford Harbor, as stated in our advertising columns. Major D. W. Lockwood, U. S. Engr.

DREDGING.—New Haven, Conn.—Bids are asked until June 8 for dredging in New Haven Harbor, as stated in our advertising columns. Major Smith S. Leach, U. S. Engrs.

PIERS.—Holland, Mich.—Bids are asked until June 9 for repairing government piers at Holland, Mich., as stated in our advertising columns. Capt. Chester Harding, U. S. Engrs.

HARBOR AND DOCKS.—Naples, Italy.—Bids are asked by the public works department, Rome, Italy, until July 10 for the construction of harbor and docks in Naples; estimated cost, $800,000, according to reports.

PARK WALLS.—Boston, Mass.—Bids are asked by the park commissioners until 4 p. m. May 12 for building two walls at Franklin Park, one at Jamaica Park and one at Dorchester Park.

TELEPHONE AND TELEGRAPH WIRES.—Manitowoc, Wis.—We are informed that the question of laying conduits for underground telephone, telegraph and electric wires is being considered.

WHARF.—Duquesne, Pa.—Reports state that the Union R. R. Co. has obtained a permit for the erection of a coal wharf, and as bids are all in, it is only a question of a few days before the work will commence.

TELEPHONES.—Gallitzin, Pa.—E. R. Cresswell is reported to have been awarded the contract for building a trunk line between Summerhill and Gallitzin, for the C. D. & P. Telephone Co., a distance of about 20 miles.

UNDERGROUND WIRE.—New Haven, Conn.—C. G. Ames, Pres. Bd. Fire Comrs., informs us that the only bid received on April 28 for 26,000 ft. of underground wire was from the Okonite Co., Ltd., of New York.

BOILERS.—New York, N. Y.—Bids are asked by the Board of Public Charities, foot East 26th St., Manhattan, until May 15, for the manufacture and the installation of two new boilers for the steamer "Thomas S. Brennan."

DREDGING.—New York, N. Y.—Secretary of War Alger has approved the contract of Andrew Onderdonk, 1 Broadway, for deepening the east channel of the harbor to 40 ft. for a width of 2,000 ft.

DREDGING.—Bridgeport, Conn.—Bids are asked until June 9 for dredging and stone work in Bridgeport Harbor, and dredging Cos Cob Harbor, Conn., as stated in our advertising columns. Major Smith S. Leach, U. S. Engrs.

REMOVAL OF WRECK.—Alloway Creek, N. J.—Bids are asked until June 8 for removal of wreck of sloop "John W. Elliott," lying in the Delaware River opposite mouth of Alloway Creek. Lieut.-Col. C. W. Raymond, U. S. Engr., Philadelphia, Pa.

MORTAR CARRIAGES.—Washington, D. C.—Bids are asked until May 26 for supplying the ordnance department, U. S. army, with 16 more or less spring return carriages for 12-in. B. L. rifled mortars. Brig.-Gen. A. R. Buffington, Chief of Ord.

DOCK.—Homestead, Pa.—It is reported that the War Department has granted the Carnegie Steel Co. permission to build a dock at Homestead; it will be 1,000 ft. long and will be used for the purpose of loading and unloading ore cars and barges of coal and steel products.

WHARF.—Tompkinsville, N. Y.—Bids are asked until May 27 for furnishing material and labor for the completion and delivery of the metal work for the east face wharf, lighthouse depot, Tompkinsville, N. Y., as stated in our advertising columns. Lieut.-Col. D. P. Heap, U. S. Engrs.

BULKHEADS.—Boston, Mass.—The following bids have been received by City Engineer Jackson for building timber bulkheads on Summer St. extension, between B and C Sts.: Wm. H. Ellis & Co., $7,000; W. H. Keyes & Co., $8,339; Ross & Fowler, $8,270; Geo. A. Cahill, $8,940; Wm. J. Lawler, $9,273.

CONTRACT PRICES.

SEWER PIPE, CEMENT, BRICK, ETC.—Minneapolis, Minn.—Our correspondent informs us that the following bids were received by the council April 28, 1899, for furnishing sewer pipe, cement, castings, brick, etc.: Vitrified clay pipe, Union Sewer Pipe Co., Red Wing, Minn., 6-in. 2-ft. lengths, 7½ cts. a ft.; 9-in. 2-ft. lengths, 14

cts., 12-in. 3-ft. lengths, 23 cts.; 15-in. 3-ft. lengths, 32 cts.; 18-in. 3-ft. lengths, 45 cts.; 24-in. 2½-ft. lengths, 80 cts.; 6 x 12 Y, 3 lengths, $1.25 each; 6 x 15 Y, 3 lengths, $1.65; 18 Y, 3 lengths, $2.25; 24 Y, 2½ lengths, $2.80; 6-in. slants, all lengths, 24 cts. each; 12-in. curved pipe, 3-ft. lengths, 80 cts. a ft.; 15-in. curved, $1.25; 18-in. curved, $1.50; 24-in. curved, $2.50; 12-in. lamp holes, $1.35 each; 15-in., $1.90; 18-in., $2.75; brick paving on 6-in. concrete foundation, 6th St., 2d Ave. to 3d Ave.: Fagan Bros., $1.65 a sq. yd.; Canny & Howe, $1.69; Fielding & Shipley, $1.72. Contracts were awarded for sewer material as follows: Brick, Nicholas Ericson, 400,000 wire cut, $6.25; E. R. Ward, Blakely, Minn., 250,000 sewer brick, $7.50; Wisconsin Red Press Brick Co., 350,000 sewer brick, $7.37; cement, J. C. Landers, Mankato or Utica cement in cloth, 82 cts. a bbl.; sacks, 10 cts., returnable at same price; sewer castings, S. T. Ferguson, $28.00 a ton of 2,000 lbs.

PARK WORK.—New York, N. Y.—The following bids were received by the department of parks, Central Park, May 4 for constructing Claremont Park, Bronx; all local bidders; lowest bid submitted by J. B. Deslin at about $13,400; the bids on 12-in. vitrified pipe include laying:

Bids Received at New York, May 4, 1899, for Constructing Claremont Park, Bronx.

Quantities.		Joseph Hastings.	Cunningham & Kearns.	Charles L. Doran.	Thielmann & Smith.	John B. Deslin.	William H. Masterson.	James H. Holmes & Co.	G. H. Doke.	W. J. Moore.
Excavation: Earth	2,000 cu. yds.	$0.40	$0.35	$0.40	$0.35	$0.40	$0.25	$0.30	$0.30	$0.50
Rock	50 " "	2.00	1.50	4.00	1.50	1.50	2.00	3.00	2.00	1.00
Rubble masonry	60 " "	3.00	4.50	4.00	4.00	4.00	3.50	5.00	4.50	4.00
Bluestone steps	260 lin. ft.	1.20	.90	1.00	1.60	.5	1.00	.90	.90	1.25
Bluestone checks	64 " "	1.20	.90	.85	1.60	.70	.70	.98	.85	1.25
Road basins, complete	12 each	20.00	31.00	40.00	50.00	40.00	40.00	40.00	50.00	35.00
Walk basins, complete	18 "	30.00	28.00	35.00	35.00	35.00	30.00	25.00	20.00	35.00
12-in. stonewre drn pipe	460 lin. ft.	1.00	.80	.75	1.00	.55	.50	.96	.60	1.00
8-in.	700 " "	.69	.65	.60	.60	.40	.35	.80	.50	1.00
6-in.	500 " "	.40	.60	.50	.50	.25	.30	.75	.40	.50
Bridgestones, fur. and laid	1,100 sq. ft.	.60	.50	.75	.60	.49	.55	.45	.50	.50
Asphalt walks	15,000 " "	.25	.25	.10	.23	.2₃	.13	.275	.30	.23
Telford macadam pavemt	4,500 sq. yds.	1.10	1.15	1.25	.80	.85	1.30	1.19	1.20	1.25
Cobblestone, pvg & gutters	600 " "	.70	.40	.50	.20	.50	.40	.65	.60	.50

DREDGING.—New York, N. Y.—Bids were received May 3, 1899, by the U. S. Engineer, Army Bldg., Whitehall St., New York, for dredging Gowanus Creek channel. This channel, from opposite the foot of Henry St. to the foot of Percival St., Brooklyn, has already been dredged to a depth of 21 ft. at mean low water for its full length and width between the harbor lines, and the middle of the channel has been further deepened to 26 ft. for a width of 125 ft. The 26-ft. channel is to be widened on both sides, and if required, shoals in the previously dredged channel are to be deepened to 26 ft. The bids were as follows, all local bidders: W. H. Beard Dredging Co., 13 William St., 23 cts. a cu. yd.; Morris & Cumings Dredging Co., 17 State St., 25 cts.; Atlantic Dredging Co., 31 Pine St., 25 cts.; International Contracting Co., 95 Broad St., 27 cts.

PAVING BRICK.—Ithaca, N. Y.—C. C. Platt, Clk. Com., writes us that the following bids were received by the commission May 1, 1899, for furnishing paving brick: Mack Mfg. Co., Philadelphia, Pa., wire cut block, 99 cts. a sq. yd.; wire cut brick, $1.05 a sq. yd.; repressed bevel edged brick, $1.14 a sq. yd; repressed bevel edged block, $1.07 a sq. yd.; Campbell Brick Co., Ithaca, Newfield repressed pavers, 95 cts. a sq. yd.; all the above delivered and piled on streets as directed by the superintendent; Costello & Neagle, Elmira, N. Y., McMahon Porter Standard brick, 93 cts. a sq. yd., f. o. b. cars, Ithaca. The contract was awarded to the Campbell Brick Co. It is required to give a bond to furnish the bricks in quantities of not less than 40,000 each week, commencing June 1. The brick next to the street car rails, shaped to fit, are to be furnished at the same price.

BRIDGE.—Chicago, Ill.—The following bids were received by the board of trustees of the Sanitary District April 26 for furnishing the materials and for erecting the sub and superstructure of the railroad bridge over the Chicago River, near Taylor St., as advertised in Engineering News:

EMBANKMENT.—Agate Bay, Minn.—The following bids were received by Maj. Clinton B. Sears, U. S. Engr., May 1, 1899, for building rip-rap embankment at Agate Bay (Two Harbors), as advertised in Engineering News, and the bid of Engle & Osman recommended for acceptance; the price given for the embankment is a running ft.:

Bidder.	Embankm't, 313 ft.	Total.
King & Steele, Duluth	$119.00	$37,247
Porter Bros., Duluth	116.23	36,380
Frank Campbell, Duluth	109.40	34,242
Engle & Osman, Duluth	84.73	26,520
Butler-Ryan Co., St. Paul	198.00	61,974
Alexander Sang, Duluth	130.25	40,768
Charles Stone, St. Paul	194.00	60,722

PIPE SEWER.—Chester, Pa.—The following contracts have been let by the council for constructing 18-in. pipe sewers in several streets: 6th St., Geo. S. Whittaker, $1.31 a ft.; Norris St., W. E. Reilley, $1.35; 4th St., John Hanna, $1.20; 8th St., W. E. Reilley, $1.35; Ulrich St., M. Honan, Jr., $1.44; 10th St., J. B. Helms, $1.38; Edgmont Ave., J. B. Helms, $1.51.

HIGHWAY DEPARTMENT SUPPLIES.—Harrisburg, Pa.—Broken stone, Attick & Beard, 75 cts. a perch; L. R. Spong, 85 cts.; sand, Harry Miller, 50 cts. a ton; J. Flanagan, 58 cts.; cement, J. E. Rhoads, $1.30 a bbl.; M. C. Eby, $1.55; J. F. Ward, $1.34; brick, S. L. Bigler, $6.25 for arch and $7 for dark red; Steelton & Harrisburg Brick Co., $6.50 for arch and $7.50 for dark red; castings, W. O. Hickox, 2½ cts. a lb.; C. N. Cooper & Co., 2¼ cts. a lb.; street crossings, J. F. Ward, $2.05 a sq. yd.; Chas. Fisher, $2.35; W. Caldwell, $2.08.

BRIDGE SUBSTRUCTURE.—Indianapolis, Ind.—The following bids were received by the county commissioners April 26, 1899, for the substructure work for the new bridge over Eagle Creek, at West Michigan St.: M. D. Cleary & Co., $10.80 a cu. yd.; Koss & Fritz, $8.30; Drake McVicker, $8; Robbins & Frazier, $7.85; Wm. Petrie, $7.40; Wm. Fife, $5.95 (awarded contract.)

EDGESTONES AND PAVING BLOCKS.—Lynn, Mass.—The following bids were received by the committee April 28, 1899, for furnishing edgestones of granite, 5,000 ft., to be delivered on the streets, 7 ins. wide at the top, not less than 6 ft. long, and of uniform depth, not less than 18 ins.: F. J. Cushing & Co., curved, 70 cts. a lin. ft.; 49 cts. straight (accepted); Blethen, Curry & Co., curved, 85 cts.; straight, 60 cts.; Dearborn Bros. & Co., curved, 85 cts.; straight, 60 cts.; S. & R. J. Lombard, curved, 70 cts.; straight, 53 cts. Granite paving blocks, 100,000, 4 to 5 ins. wide, 10 to 14 ins. long, 6 ins. deep: Dearborn Bros. & Co., $53.50 a 1,000, delivered on street, as wanted; S. & R. J. Lombard, $52 a 1,000, on wharf or cars; F. J. Cushing & Co., $54 a 1,000, on wharf, $57 on street. Contract awarded to Dearborn & Co.

CEDAR BLOCK PAVING.—Detroit, Mich.—The following lowest bids were received by the board of public works May 1, 1899, for cedar block paving on concrete foundations: Canfield Ave., Hastings to McDougall; John A. Mercier, $1.21 a sq. yd.; total, $21,456; Joseph Campau Ave., Hendricks to Gratiot, J. A. Mercier, $1.32 a yd.; total, $5,790; Cross St., John R. to Randolph, Julius Porath, $1.13 a yd.; total, $529; Center St., Wilcox to Randolph, J. Porath, $1.48 a yd.; total, $849; St. Antoine, Rowena to Canfield, less single street car track, J. A. Mercier, $1.27 a yd.; total, $6,616; Seyburn Ave., Champlain to Agnes, City St. Improvement Co., J. H. Talbot, Pres., $1.38 a yd.; total, $2,820; Bowen Ave., Jefferson to Kercheval, Geo. E. Currie, $1.46 a yd.; total, $6,887; Richard St., Seyburn to Van Dyke, Arthur C. Lloyd, $1.52 a yd.; total, $2,079. The board of public works also opened bids for 5,000 yds. of Thousand Islands paving blocks, as follows: F. B. Stevens, $2.49 a sq. yd.; Sheehan & Co., $2.55; White, Burgess & Co., $1.85; A. C. Lloyd, $1.92; John McVicar, $1.83.

PAVING BRICK.—Sunbury, Pa.—The council received the following bids April 20, 1899, for furnishing paving brick: Hamburg Vitrified Brick Co., 74½ cts. a sq. yd.; Mill Hall, 74 cts. a sq. yd.; Mack Mfg. Co., wire cut paving brick, 93 cts. a sq. yd.; wire cut block, 88 cts. a sq. yd.; Mack block, 96 cts. a sq. yd.; John P. Ryan, Auburn, $11.50 a 1,000; Pine Grove, 73 cts. a sq. yd.; J. H. Guise. Guise block, 77 cts. a sq. yd.; Montello, $13.75 a 1,000.

Bids Received at Chicago, Ill., April 26, 1899, for Railroad Bridge over the Chicago River, near Taylor St.

Bidder.	Excavat'n, 12,000 cu. yds.	Sheet pil'g & brac'g, 225 M. ft.	Timber in foundat'n & pier, 5.04 M. ft.	Piles delivered, 44,840 lin. ft.	Piles Driven in foundat'n, 44,840 lin. ft.	Cement concrete—Natural, 3,450 c. yds.	Cement concrete—Portland, 3,650 c. yds.	Stone masonry, 940 c. yds.	For air pipe, laid.	Superstructure complete.	Extras; price a lb.—Medium or soft steel, cts.	Iron castings, cts.	Steel for superstructure, cts.	Steel castgs for machinery, cts.	Phosphor bronze, cts.	Counterweight block castings, cts.	Total.
Pennsylvania Steel Co., Steelton, Pa.	$0.50	$34.00	$44.00	$0.18	$0.33	$3.85	$5.75	$13.00	$1,000	$214,500	4.75	4.25	8.5	10.5	30	2.0	$297,385
King Bridge Co., Cleveland, O.	.55	39.00	50.00	.20	.33	4.50	6.50	15.50	200	242,000	5.75	4.5	7	9	30	1.6	335,412
C. L. Strobel, Chicago, Ill.	.44	33.00	56.00	.18	.18	4.40	7.95	14.75	500	247,841	4.9	3.9	7.8	7.8	35	1.9	333,533
Toledo Bridge Co., Toledo, O.	.65	37.65	45.20	.19	.31	4.16	6.24	14.50	1,000	247,000	5.5	4	7	8	35	2.5	337,677
Chicago Bridge & Iron Co., Chicago	.55	40.00	50.00	.20	.33	4.40	6.60	15.40	1,000	251,000	6	10	10	10	50	2	345,393
J. G. Wagner Co., Milwaukee, Wis.	.55	40.00	50.00	.19	.32	4.25	6.25	14.50	1,000	295,000	3.95	3.5	7.5	10	45	1.5	383,825
Massillon Bridge Co., Massillon, O.	.60	40.00	52.00	.20	.35	4.25	6.50	14.50	500	295,000	3.5	2	6	8	30	1.5	388,642

Bids were also submitted for the sub and superstructure of a bridge for Taylor St., crossing the Chicago River. The itemized bids were the same as those for the railway bridge, with the following exceptions—(1) being for 1,500 cu. yds. of excavation, (2) for 50,000 ft. (B. M.) sheet piling, (3) for timber in foundation (6,500 ft. B. M.), (4) for 10,840 lin. ft. of piles delivered, (5) 6,760 lin. ft. of piles in foundation, (6) 4,080 lin. ft. of piles in protections, (7) natural cement concrete; (8) 905 cu. yds. Portland cement concrete, (9) 135 cu. yds. masonry, (10), superstructure complete, (11) removal of present abutments, etc., (12) totals: Chicago Bridge & Iron Co., (6) 30 cts., (10) $52,000, (11) $2,200, (12) $71,04-; King Bridge Co., (6) 28 cts., (10) $58,500, (11) $2,000, (12) $77,132; Toledo Bridge Co., (1) 52 cts., (2) $35.20, (6) 26 cts., (10) $59,900; (11) $2,000, (12) $77,589; Massillon Bridge Co., (1) 65 cts., (3) $45, (4) 18 cts., (5) 30 cts., (6) 30 cts., (8) $6.25, (10) $62,000, (11) $1,800, (12) $79,831; C. L. Strobel, (6) 18 cts., (7) $4.90, (9) $14.30, (10) $51,400, (11) $4,100, (12) $81,216; Pennsylvania Steel Co., (5) 30 cts., (6) 25 cts., (10) $66,-000, (11) $1,800, (12) $82,507; J. G. Wagner Co., (6) 27 cts., (10) $81,000, (11) $2,400, (12) $89,503. For the railway bridge the contract was let to the Pennsylvania Steel Co., and that for the city bridge to the Chicago Bridge & Iron Co.

LEVEE WORK.—New Orleans, La.—The state board of engineers received the following bids April 26, 1899, for constructing the Evergreen levee in the Atchafalaya basin levee district: C. D. Leeper, 17.44 cts. a cu. yd.; E. B. Helgason, 29.45 cts.; Clark, Reagan & Loonan, 18 cts.; Hayes Bros., 22.50 cts.; Hearin & O'Connor, 22.50 cts.; R. Nicholson, 16.21 cts.; Donavan & Daley, 14.70 cts.; Estate S. L. James, 16 cts.; I. R. Bobbit, 16.74 cts. The proposed new levee is in Iberville Parish, three miles below Plaquemine. It will be a mile long when completed, and average 17.2 ft. in height. It will contain about 220,000 cu. yds. of earth.

INDUSTRIAL NOTES.

THE WOLFF & ZWICKER IRON WORKS, Portland, Ore., is announced to have a contract for eight miles of 26-in. riveted steel pipe.

THE M. C. BULLOCK MFG. CO., Chicago, has just received orders for a 70-ton, ice-making machine for Australia and a 60-ton machine for New Zealand.

THE STANLEY ELECTRIC CO., Pittsfield, Mass., has just shipped two carloads of dynamos to California; also the dynamos for a new electric plant at North Adams, Mass.

THE W. S. DICKEY CLAY MFG. CO., Kansas City, Mo., has just shipped 26 carloads of sewer pipe as the initial shipment on account of contracts in hand from the cities of Mexico, Guadalajara and Chihuahua.

H. K. PORTER & CO., Pittsburg, Pa., inform us that they have recently shipped four compound locomotives to Russia, two to Finland, and two double-end engines to a South African mining company. They also report a large number of orders on hand for home and foreign trade.

THE TAUNTON LOCOMOTIVE MFG. CO., Taunton, Mass., announces that its Wainwright Department (feed water heaters, surface condensers and expansion joints) will be represented in New York hereafter by Mr. Chas. H. Paine, with offices in the new Singer Building, corner of Broadway and Liberty St.

THE BALDWIN LOCOMOTIVE WORKS, Philadelphia, has an order for 20 freight locomotives for the Great Central Ry. of England. The company received a few weeks ago a contract for 20 passenger locomotives for the same railway. The company is also building 71 locomotives for the Chinese part of the Trans-Siberian Ry.

THE LAP JOINT RY. TRACK CO., Bound Brook, N. J., elected the following officers on May 2: Pres., Chas. K. Moore; Vice-Pres., Alvah A. Clark; Secy. and Treas., H. M. Herbert; Ch. Engr., Volney W. Mason, Jr. A local paper states that the company has been in existence about a year and has contracts for constructing over 50 miles of railways.

C. L. BERGER & SONS, Boston, successors to Buff & Berger, recently celebrated the completion of their three-thousandth instrument. The company now possess three automatic circle-dividing engines, including their own, the "Temple" engine and the "Wurckmann" engine. We are informed that they have enlarged their workshops, increased their force of workmen and greatly added to their machinery, on account of their growing business.

THE HARRISON SAFETY BOILER WORKS, Philadelphia, has just completed and sent to the Brooklyn Navy Yard, for shipment to the Philippine Islands, three separators for the engines of the cruisers "Isla De Luzon" "Don Juan De Auvria" and "Isla De Cuba," which were captured from the Spaniards and have for several months been undergoing repairs. The company has recently exported several Cochrane separators to La Compagnie Generale Glace Hygienique, Paris, the Anglo-Swiss Condensed Milk Co., at Cham, Switzerland, and to A. S. Hay, Yokohama, Japan.

THE PNEUMATIC SUPPLY & EQUIPMENT CO., 120 Liberty St., New York, is bringing out several specialties in the compressed air line, such as pneumatic oil rivet forges, quick-acting hose couplings, and has in addition closer agencies for several standard types of compressors. Mr. J. W. Duntley, the President of the Chicago Pneumatic Tool Co., is the President of the new Company. Mr. E. B. Gallagher, formerly with Messrs. Patterson, Gottfried & Hunter, is the Vice-President and Engineer, and Mr. W. P. Pressinger, formerly Manager of the Clayton Air Compressor Works, is Secretary and Treasurer.

THE PHOENIX BRIDGE CO., Phoenixville, Pa., has just received a contract to build 12 steel bridges for the Eastern Chinese R. R., the southwestern extension of the Trans-Siberian R. R. It is said that M. Tepershoff, of the Imperial Engineering Corps, St. Petersburg, is now in Phoenixville. The company is reported to have just contracted with agents of the Japanese government to build a large steel bridge for the Imperial R. R. of Japan. It has contracts also to build a number of steel railway bridges and viaducts for Central America, Brazil, Canada and Mexico. All departments are being worked day and night in order to fulfil contracts. The company is also making the steel shapes for about 20 torpedo boats and torpedo boat destroyers for the government.

THE BERLIN IRON BRIDGE CO., East Berlin, Conn., has the contracts for the bridges on the line of the Shelton St. Ry. These bridges consist of what is known as "Peck's Mill" bridge, which is a deck construction, having four 130-ft. riveted lattice spans, and three plate girders spans about 40 ft. each. The total length of the bridge is 654 ft. The trestle for the South End Land Co. consists of one 130-ft. riveted lattice span, one 30-ft. and one 60-ft. plate girder span, making a total length of 220 ft. Besides these are two plate girder spans, one of 60 ft. over Far Mill River, and a bridge in the town of Shelton, which answers as a highway bridge, as well as a crossing which carries the street railway tracks. The company is also finishing and erecting the framework and covering for the new 40 x 60-ft. engine room being built by the Hendey Machine Co., Torrington, Conn. The side walls are of brick; the roof has steel trusses with corrugated iron covering, supported on steel purlins. A large ventilator extends along the ridge of the roof. The corrugated iron is lined with the Berlin Iron Bridge Co.'s patent anti-condensation lining.

Mail Delivery Notice.

Special efforts are made to deliver our paper to its readers each week at the earliest possible moment. The largest binding and mailing establishment in New York begins work on Engineering News early each Wednesday evening, and all papers for Boston, Philadelphia and Washington are usually in the New York post-office by midnight; all Brooklyn and New York city papers by 3 o'clock—in ample time for the first delivery Thursday morning. The entire edition, including foreign copies, is in the mail soon after 6 o'clock Thursday morning. If your paper is not received promptly we advise that you make a complaint to your local post-office officials.

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